



Life Sciences

Fisher Science Education
2021 Product Catalog

Featured Suppliers



CORNING



Visit fisheredu.com/featuredsuppliers to learn more about these suppliers and their products.

Helpful Icons



New product



Must be shipped by truck for regulatory reasons



Meets Americans with Disabilities Act requirements



Protects against splashes from hazardous chemicals or potentially infectious materials



Applicable for remote learning

Guarantee

If you're not 100% satisfied with your purchase, contact our customer service team within 30 days of your invoice date and we'll either exchange, repair, or replace the product, or give you a credit for the full purchase price. Call us toll-free for a return authorization number.

Special order items, furniture, and closeouts cannot be exchanged or credited.

Phone: 1-800-955-1177 • 7 a.m. to 5:30 p.m.
Central Time, Monday through Friday

Fax: 1-800-955-0740 • 24 hours a day, 7 days a week

Email: fse.custserv@thermofisher.com

Website: fisheredu.com

Address: Fisher Science Education
4500 Turnberry Drive
Hanover Park, IL 60133

For international orders, see page 110. All prices are subject to change.

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Life Sciences

Preparing today's students to be the innovators of tomorrow isn't always easy, but finding the right teaching tools can be. From basic lab supplies to state-of-the-art classroom technology, the Fisher Science Education team has everything you need to create a 21st century STEM learning environment. Visit fisheredu.com to get started.

Want to customize aspects of your curriculum?

Explore custom kits to meet the unique demands of your classroom. Visit fisheredu.com/customkitting to learn more.

Concerned about shipping and handling fees?

We offer \$12 flat-rate shipping on most orders and our hazardous material fee is just \$15 — the lowest in the country.

Looking for Something Else?

Check out our other 2021 catalogs:

- Chemicals
- Equipment and furniture
- Lab supplies and consumables
- Physical science
- Safety
- STEM



The vibrant colors of peacock feathers come from microscopic structures that refract certain wavelengths of light.

Visit fisheredu.com/headlinediscoveries for more science facts.

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Visit fisheredu.com to view our full offering of products.



Innovative Products, Exceptional Quality Providing The Perfect Classroom Solution

Trust cutting-edge Fisher Science Education™ optics coupled with an array of industry-leading QR-coded WiFi camera solutions with seamless integration to meet all your classroom laboratory requirements.

FMC4 - **S72544** - \$673.00

FMC4 - **S72546** - \$808.00

FMC4 - **S72548** - \$933.00

WiFi Camera - **S72527** - \$405.00

NEW
Featured
Products



Study Coronavirus

These 3D models help students visualize and investigate complex structures and processes.

Description	Cat. No.	Price
NewPath Learning™ Coronavirus Antibody Test 3D Model Kit	S81447	\$30.00
NewPath Learning Coronavirus Cycle 3D Model Kit	S81448	\$30.00



Enhance Plant Study

Examine microscopic plant details with these larger-than-life models.

Description	Cat. No.	Price
Eisco™ Dicotyledon Plant Stem Model	S27486	\$103.00
Eisco Cell Structure of Root Tip Model	S27487	\$74.75
Eisco Plant Cell Model	S27484	\$95.00
Eisco Dicot Stem Transverse Section Model	S27485	\$74.75
Eisco Field Herbarium Press	S89499	\$38.50



Automate PCR

The compact RevCycler PCR machine is fast and ready to use with a touchscreen display and 25-tube capacity.

Description	Cat. No.	Price
RevSci RS-RY-100 RevCycler PCR Machine	S29550	\$1,029.00



Discover Through Dissection

Study the internals of a variety of organisms with these dissection kits.

Description	Cat. No.	Price
Ranaco Comparative Circulatory System Kit, Includes Crayfish, Earthworm, Squid, Grass Frog, Fetal Pig, Foam Tray, 2 Pair Nitrile Gloves, 2 Disposable Aprons, Storage Bag, Scissors, 6 T-Pins, Forceps, Teasing Needle, and Ruler	S81542	\$65.00
Ranaco Comparative Circulatory System Kit, Includes Crayfish, Earthworm, Squid, Grass Frog, Fetal Pig, Foam Tray, 2 Pair Nitrile Gloves, 2 Disposable Aprons, and Storage Bag	S81543	\$57.00
Ranaco Animal Anatomy Kit, Includes Earthworm, Grasshopper, Crayfish, Frog, Foam Tray, 2 Pair Nitrile Gloves, 2 Disposable Aprons, Storage Bag, Scissors, 6 T-Pins, Forceps, Teasing Needle, and Ruler	S81522	\$37.00
Ranaco Basic Zoology Set Kit, Includes 2 Pair Nitrile Gloves, 2 Disposable Aprons, Storage Bag, Scissors, 6 T-Pins, Forceps, Teasing Needle, and Ruler	S81552	\$40.00
Ranaco Comparative Vertebrate Anatomy Kit, Includes Shark, Grass Frog, Rat, Fetal Pig, Foam Tray, 2 Pair Nitrile Gloves, 2 Disposable Aprons, Storage Bag, Scissors, 6 T-Pins, Forceps, Teasing Needle, and Ruler	S81550	\$79.25



Contain Your Work

AirClean™ Systems AC600 Series PCR Workstations combine ISO 5 HEPA-filtered air with UV light irradiation.

Description	Cat. No.	Price
Airclean Systems Combination PCR Workstation, Internal W x D x H: 47 x 23 x 29 in.	S30095	\$6,880.00
Airclean Systems Combination PCR Workstation, Internal W x D x H: 31 x 23 x 27 in.	S30094	\$5,200.00



CAROLINA™

Living Material

The Fisher Science Education team is proud to offer Carolina™ Biological Supply Company's living specimens. This partnership provides you with:

Extensive Variety | Expert Support | Superior Quality

Ordering Information

To order live specimens, please call customer service at **1-800-955-1177**.

When you place your order, be prepared to provide a specified delivery date and contact information for the faculty member using the product.

Living organisms are shipped Monday through Wednesday using two-day shipping.

Shipping on Monday for Tuesday delivery is possible but will require expedited, overnight shipping.

Your living materials are guaranteed to arrive on time and in a healthy condition or we will replace them with 100% satisfaction guaranteed.

Releasing Organisms

Living organisms are offered for educational purposes only. We do not advocate the release of any organism into the environment. In some states, it is illegal to release organisms, even indigenous species, without a permit.

Restrictions

- **State Shipping Restrictions:** Some living specimens are restricted in certain states. Please see the individual product listing for this information. Some items have substitution recommendations and/or replacement items that can be provided. This will be determined upon receipt of an order.
- **Seasonal Restrictions:** Some living specimens are seasonal and are only available at certain times during the year. Please see the individual product listings for seasonal availability.
- **Hawaii Restriction Notice:** Shipment of living materials (bacteria, algae, plants, protozoa, insects, and other animals) into Hawaii is restricted.

Prepaid Coupons

You can order living organisms in advance using a prepaid coupon option that allows you to arrange delivery when you are ready.

Pay one flat price that includes the cost of the organism and the shipping fees.

Coupons will not expire and can be redeemed at any time.

Redeem coupons by phone, fax, online, or mail.

To ensure prompt arrival of materials, redeem coupons at least two weeks prior to your requested delivery date.

Living Organisms

Bacteria

Carolina™ Gram Stain Comparison Set

A selection of five bacterial tube cultures representing Gram-negative and Gram-positive bacteria. This characteristic of bacteria is determined by the make-up of the cell wall, tested by using the Gram-stain method, which is used as the first step in identifying a bacterium.

INCLUDES:

- *Bacillus cereus* (Gram-positive rod)
- *Branhamella catarrhalis* (Gram-negative coccus)
- *Micrococcus luteus* (Gram-positive coccus)
- *Rhodospirillum rubrum* (Gram-negative spiral)
- *Serratia marcescens* (Gram-negative rod)

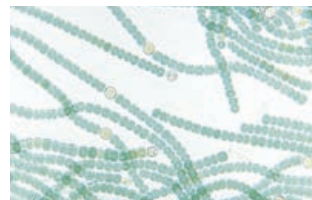


Carolina™ Cyanobacteria Cultures

Cyanobacteria, also known as blue-green bacteria, blue-green algae and Cyanophyta, is a phylum of bacteria that obtain their energy through photosynthesis.

Low light is 50 to 100 ft. candles of fluorescent light or fluorescent light from the ceiling; High light level is 200 to 400 ft. candles of fluorescent light 18 to 24 in. from the culture.

- Enough material for a class of 30 students



Cat. No.	Description	Media Type	Scientific Name	Price
S07461ND	Anabaena	Alga-Gro™ freshwater	Anabaena	8.70/Ea
S07481ND	Oscillatoria	Alga-Gro™ freshwater	Oscillatoria	8.70/Ea
S07474ND	Gloeocapsa	Allen's	Gloeocapsa	8.35/Ea

Cat. No.	Description	Price
S07420ND	Gram Stain Comparison Set	59.14/Pk

Carolina™ High School Bacteria Collection Sets

Bacteria inhabit soil, water, acidic hot springs, radioactive waste and the deep portions of Earth's crust.

There are typically 40 million bacterial cells in a gram of soil and a million bacterial cells in a milliliter of fresh water.

High School Set (S07421ND)

- Seven tubes
- Cultures grown on nutrient agar except where noted
- *Bacillus megaterium*
- *Branhamella catarrhalis* (brain heart infusion agar)
- *Micrococcus luteus*
- *Pseudomonas fluorescens*
- *Rhodospirillum rubrum*
- *Serratia marcescens*
- *Sporosarcina ureae*

Advanced High School Set (S07415ND)

- 12 tubes

Kit represents different chemical and morphological groups:

- *Bacillus megaterium*
- *Branhamella catarrhalis*
- *Clostridium sporogenes*
- *Lactobacillus acidophilus*
- *Micrococcus luteus*
- *Pseudomonas fluorescens*
- *Rhodospirillum rubrum*
- *Serratia marcescens*
- *Spirillum volutans*
- *Sporosarcina ureae*
- *Streptomyces griseus*
- *Vibrio fischeri*



Cat. No.	Description	Price
S07415ND	Advanced High School Bacteria Collection Set	139.10/Pk
S07421ND	High School Bacteria Collection Set	79.82/Pk

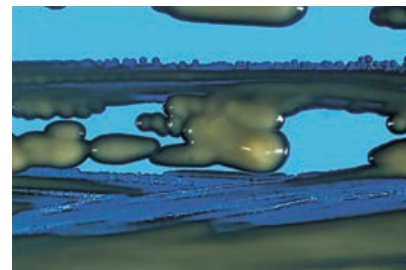
⚠ ALERTS:

Because this item is a living or perishable material a specified delivery date is required. Orders must be placed through Customer Service at 1-800- 766-7000

Carolina™ Individual Bacterial Cultures

Bacteria cultures have wide applications in the food and chemical industries because of their highly diverse metabolic activities.

Bacteria are involved in many of the events that make life possible for other organisms, including humans. Fossils of prokaryotes similar to today's bacteria have been found in 3.5 billion-year-old rocks. A mastery of bacteria is the key to understanding life on earth in the past, present, and future.



- Labeled by genus and species name and media on which they are cultured
- All Gram staining based on 24 hr. cultures
- Pure and high-quality
- For every level of study
- Easy-to-use media

INCLUDES:

- Materials for a class of 30 students
- Carolina™ *Techniques for Studying Bacteria and Fungi* manual

Cat. No.	Scientific Name	Media Type	Packaging	Temperature Range	Price
S07423ND	Alcaligenes faecalis	Nutrient Agar	Vial	37°C	18.91/Ea
S07183ND	Bacillus megaterium	Nutrient Agar	Tube	30°C	11.76/Ea
S07424ND	Bacillus subtilis	Nutrient Agar	Vial	30°C	18.91/Ea
S07184ND	Bacillus subtilis	Nutrient Agar	Tube	30°C	11.76/Ea
S07189ND	E.coli Culture	Nutrient Agar	Tube	37°C	12.50/Ea
S07417ND	E.coli Culture	Nutrient Agar	Tube	37°C	12.50/Ea
S07403ND	E.coli MicroKwik Culture™	Nutrient Agar	Vial	37°C	20.00/Ea
S07192ND	Micrococcus luteus Culture	Brain Heart Infusion Agar/Broth	Tube	25°C	11.76/Ea
S07196ND	Proteus vulgaris	Nutrient Agar	Vial	37°C	18.91/Ea
S07195ND	Pseudomonas aeruginosa	Nutrient Agar	Vial	37°C	18.91/Ea
S07203ND	Staphylococcus aureus	Brain Heart Infusion Agar	Vial	37°C	20.00/Ea
S07405ND	Staphylococcus epidermidis	Nutrient Agar	Vial	37°C	18.91/Ea
S07400ND	Streptococcus pyogenes	Tryptic Soy Agar with 5% Sheep Blood	Vial	37°C	18.91/Ea
S07426ND	Serratia marcescens	Nutrient Agar	Vial	25°C	18.91/Ea
S07201ND	Serratia marcescens	Nutrient Agar	Tube	25°C	11.76/Ea

Protists

Carolina™ Basic Protozoa Set

Watch *ameoba* capturing food, *paramecia* undergoing conjugation and *euglena* doing backflips.

- Three separate cultures

INCLUDES:

- *Amoeba*
- *Euglena*
- *Paramecium*
- Culturing instructions
- Pack of 3



Cat. No.	Description	Price
S07446ND	Basic Protozoa Set	26.25/Pk

⚠ ALERTS:

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Carolina™ Advanced High School Algae Set

An excellent survey of algal types and diversity.

- 20 cultures selected
- Meets the needs of any biology course

INCLUDES:

- *Ulva* (seaweed)
- *Peridinium* (dinoflagellate)
- *Pandorina*
- *Oscillatoria*
- *Spirogyra*
- *Anabaena*
- *Polysiphonia* (seaweed)
- *Chlamydomonas*
- *Chlorella*
- *Closterium* (desmid)
- *Synedra* (diatom)
- *Ectocarpus* (seaweed)
- *Euglena*
- *Scenedesmus*
- *Gloeocapsa*
- *Micrasterias* (desmid)
- *Nostoc*
- *Volvox*
- *Ulothrix*
- *Oedogonium*
- Teacher's Manual



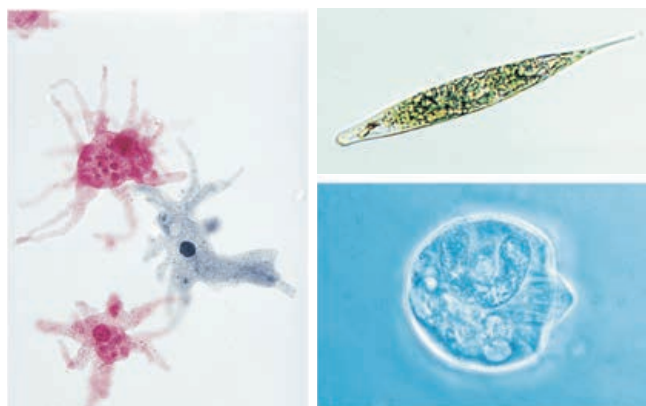
Cat. No.	Description	Price
S07460ND	Advanced High School Algae Set	156.62/Pk

Carolina™ Individual Protozoa Cultures and Mixtures

Protozoa show students the basic properties of living matter.

- Pure and uncontaminated cultures
- Cultures arrive ready to use

Cat. No.	Description	Price
Cultures		
S07216ND	Volvox sp.	8.70/Ea
S07222ND	Euglena	8.70/Ea
S07489ND	Volvox globator	8.35/Ea
S07217ND	Amoeba proteus	8.70/Ea
S07219ND	Paramecium	8.35/Ea
S07220ND	Paramecium caudatum	8.70/Ea
S07223ND	Stentor coeruleus	8.70/Ea
S07224ND	Vorticella	9.74/Ea
S07226ND	Didinium	8.35/Ea
S07463ND	Chlamydomonas	8.70/Ea
Mixtures		
S07227ND	Protozoan Mixture	14.59/Ea
S07228ND	Protozoa Survey Set	47.71/Ea
S07450ND	Ciliate Mixture	15.00/Ea
S07452ND	Pond Mixture	15.17/Ea
S07453ND	Pond Mystery Mix	12.58/Ea
S07455ND	Protozoa Survey Mixture	15.94/Ea
S07465ND	Chlorella	8.70/Ea



Note: To ensure you order enough living materials for the number of students in your class, order one culture for up to 30 students, two cultures for 31 to 60 students, three cultures for 61 to 90 students, etc.

INCLUDES:

- Materials for a class of 30 students
- Dropping pipet
- Appropriate medium



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Carolina™ Freshwater Spirogyra

Collected from Carolina Biological Supply Company's ponds.

- Enough material for a class of 30 students



Cat. No.	Description	Price
S07468ND	Euglena	9.25/Ea
S07469ND	Spirogyra	10.25/Ea

Carolina™ Easy-View Protozoa Set

The five organisms in this set are specially selected for easy viewing under older, low-resolution microscopes.

Chaos (Pelomyxa) is stained with Vitachrome™; other cultures are not stained.

INCLUDES:

- *Blepharisma*
- *Spirostomum*
- *Stentor coeruleus*
- Vitachrome *Chaos (Pelomyxa)*
- *Volvox globator*
- Materials for 30 students
- Culturing and care instructions
- Pack of 5



Cat. No.	Description	Price
S07457ND	Easy-View Protozoa Set	40.27/Pk

Carolina™ Protozoa Classification Set

Protozoa, a group of 215,000 described species of flagellates, *amoebas*, spore formers and ciliates, are excellent tools to help students understand single-celled organisms.



- Includes nine individual cultures representing the three main classes of protozoa
- Pack of 9

INCLUDES:

- Sarcodines: *Amoeba*, *Arcella*, *Diffflugia*
- Flagellates: *Euglena*, *Pandorina*, *Peranema*
- Ciliates: *Blepharisma*, *P. bursaria*, *Euplotes*
- Instructions

Cat. No.	Description	Price
S07449ND	Protozoa Classification Set	72.53/Pk

Fungi

Carolina™ *Sordaria* Demonstration Cross Plate

A cross of *Sordaria fimicola* wild type and the mutant tan strain for demonstrating genetic crossing-over.

- Easy to perform
- Requires some basic training in microbiology
- One plate

Cat. No.	Description	Price
S07440ND	<i>Sordaria</i> Demonstration Cross Plate	28.42/Ea



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Plants

Carolina™ Aquarium Plants

Elodea

Your fish can breathe easier with *Elodea densa*, the best of the oxygenating plants.

This vigorous, healthy plant needs good light and should be anchored in soil or sand.

- Cultivated form
- Keeps water conditioned and oxygenated
- Can survive and grow as floating fragments
- Recommended for photosynthesis studies
- With instructions



Duckweed

Duckweed are small plants that often cover the water like a green carpet.

- *Lemna minor*
- Monocot
- Unit contains 100 to 150 plants
- With instructions

Cat. No.	Description	Quantity	Price
S07497ND	Elodea densa	12 Pack	14.75/Pk
S07498ND	Elodea densa	25 Pack	15.50/Pk
S07499ND	Elodea densa	50 Pack	25.75/Pk
S07496ND	Elodea densa	12 Pack	17.81/Ea
S07493ND	Duckweed	150 Pack	10.25/Pk

Note: Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, Online web form, or mail. To ensure prompt arrival of material, coupons must be redeemed at least 2 weeks prior to requested delivery date.

Carolina™ Elodea Tips

Use these young growing tips to demonstrate streaming protoplasm as well as osmosis, plasmolysis, and other cell studies.

- Excellent choice for studying plant cells, osmosis, and plasmolysis
- Great source for photosynthetic parenchyma cells
- Can be used to teach plant leaf morphology
- Not for aquarium use
- For a class of 15



Cat. No.	Description	Price
S07500ND	Elodea Tips	12.00/Ea

⚠️ ALERTS:

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Carolina™ Coleus

An especially good specimen for starch-iodine reaction studies, to show absence of photosynthesis in non-green areas.

- White variegated
- Vigorous clone
- Easy to propagate from stem cuttings
- One Plant



Cat. No.	Description	Price
S07550ND	Coleus	10.75/Ea

Carolina™ Tropical Fern Set

Ferns reproduce via spores and have neither seeds nor flowers. Most ferns have what are called fiddleheads.

INCLUDES:

- A set of five different tropical fern
- Interesting forms such as: Boston fern, Staghorn fern, Korean rock fern, Button fern, Lemon button fern, Silver lace fern, Bird's nest fern, etc., may be included
- Pack of 5



Cat. No.	Description	Price
S07571ND	Tropical Fern Set	50.88/Pk

Carolina™ Liverwort Set

It is estimated that there are about 9000 species of liverworts.

INCLUDES:

- 4 different liverworts (genera may vary seasonally)
- Marchantia Life Cycle Bioreview™ Sheet
- Pack of 4



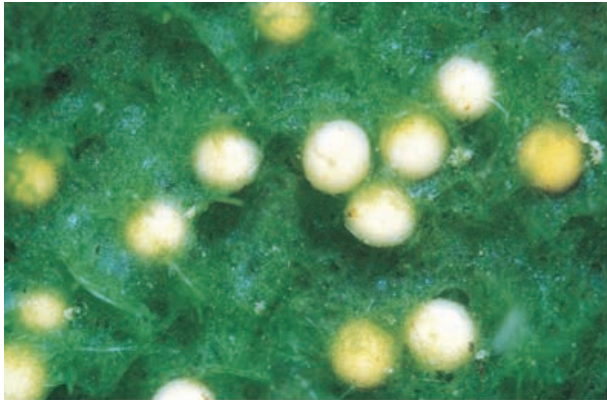
Cat. No.	Description	Price
S07511ND	Liverwort Set	32.06/Pk

Animals

Invertebrates

Carolina™ Spongilla

Demonstrates siliceous spiculation and internal budding (specimens with gemmules are supplied when possible).



- Freshwater sponge
- For class of 15 students

Cat. No.	Description	Price
S07501ND	Spongilla	21.46/Ea

Carolina™ Hydra, Planaria and Daphnia Review Set

Observe the similarities and differences between some of the most popular invertebrates.

**INCLUDES:**

- A separate culture of *Hydra*, *Planaria* and *Daphnia*
- A pad of 30 Bioreview™ Sheets for each
- Instructions for culturing each form
- Pack of 3

Cat. No.	Description	Price
S07594ND	Hydra, Planaria, and Daphnia Review Set	45.12/Pk

Carolina™ Daphnia pulex

Daphnia pulex is the most common species of water flea. *Daphnia pulex* is an easy-to-grow food source for *hydra* and small fish.

- For a class of 30 students
- Recommended for environmental studies
- Prolific: grow to feed your fish

INCLUDES:

- Several instars (including large forms with eggs)
- Instructions



Cat. No.	Description	Price
S07269ND	Daphnia Pulex	10.50/Ea

Note: Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, Online web form, or mail. To ensure prompt arrival of material, coupons must be redeemed at least 2 weeks prior to requested delivery date.

Carolina™ Daphnia magna

Cultures of *D. magna* contain adults, juveniles, and neonates.

- For a class of 30 students
- A large species of *Daphnia*
- Commonly used in aquatic effluent toxicity testing
- An obligate algal feeder
- Cultured using powdered *Spirulina* as a food source



Cat. No.	Description	Price
S07268ND	Daphnia Magna	11.25/Ea
S07268CND	Daphnia Magna Coupon	22.74/Ea

Note: Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, Online web form, or mail. To ensure prompt arrival of material, coupons must be redeemed at least 2 weeks prior to requested delivery date.

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Carolina™ Hydra

An underwater wonder!

Generally, the brown hydra species shipped is *Hydra littoralis*. Specimens are freshly collected to ensure maximum natural size and optimum physiological condition.



- Easily maintained in a freshwater aquarium
- For a class of 30 students
- Needs no filtration or aeration system
- Reproduces rapidly when fed daily

Cat. No.	Description	Price
S07265ND	Hydra	10.00/Ea

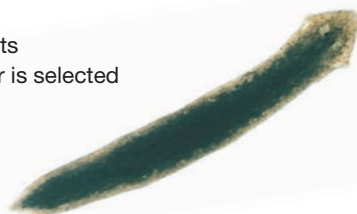
Note: Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, Online web form, or mail. To ensure prompt arrival of material, coupons must be redeemed at least 2 weeks prior to requested delivery date.

Carolina™ Planaria

Remarkable regeneration!

Witness how *planaria* can grow new heads and tails.

- Great for regeneration and memory studies
- Affordable
- Easy to culture
- For a class of 30 students
- A single species or color is selected based on availability
- With instructions



Cat. No.	Description	Price
S07590ND	Planaria	11.25/Ea
S37298	Planaria, Living Material Coupon	18.05/Ea

Note: Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, Online web form, or mail. To ensure prompt arrival of material, coupons must be redeemed at least 2 weeks prior to requested delivery date.

⚠ ALERTS:

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Carolina™ Brown Planaria

Regenerating Wonders!

The size of this planarian varies with the season. Smaller forms are more prevalent in early spring; larger or mature forms are evident throughout remainder of year.

- Great for regeneration and memory studies
- Easy to culture
- Affordable
- For a class of 30 students
- With instructions



Cat. No.	Description	Price
S07229ND	Brown Planaria	11.25/Ea

Carolina™ Mixed Rotifers

Commonly called wheel animals.



- For a class of 30 students
- Equal numbers of both species in a single culture

INCLUDES:

- A mixture of *Monostyla* and *Philodina*

Cat. No.	Description	Price
S07231ND	Mixed Rotifers	11.00/Ea

Carolina™ *Caenorhabditis elegans* N2

Caenorhabditis elegans completes its life cycle in three days, developing from egg through four larval stages to adult.

- Wild-type strain
- Extensively used for genetic studies
- Aseptically maintained on Nematode Growth Agar with *E. coli* as the feeder host



Cat. No.	Description	Price
S07601ND	<i>Caenorhabditis elegans</i> N2	15.75/Ea

Carolina™ Water Bears

Cryptobiotic (inactive) forms may be made by dehydration and can be reanimated during class for student observation or about an hour before needed.



- Tardigrades are supplied in an active form, and are sometimes known as water bears
- For a class of 30 students

Cat. No.	Description	Price
S07592ND	Water Bears (Tardigrades)	14.50/Ea

Carolina™ Earthworms

Students can find these tube-shaped, segmented animals living in soil and feeding on live and dead organic matter.

- *Lumbricus terrestris*
- Large, mature specimens are suitable for laboratory study and dissection
- Medium-sized specimens are not suitable for dissection, but are good for making slides and for use as food for snakes and large salamanders
- With instructions
- Pack of 25



Cat. No.	Description	Price
S07271ND	Large Earthworm	22.00/Pk

Note: Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, Online web form, or mail. To ensure prompt arrival of material, coupons must be redeemed at least 2 weeks prior to requested delivery date.

Carolina™ Pond Snails

Popular medium sized snails for aquariums and hands-on activities.

- With instructions
- Pack of 12



Cat. No.	Description	Price
S07278ND	Pond Snail	16.00/Pk

Note: Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, Online web form, or mail. To ensure prompt arrival of material, coupons must be redeemed at least 2 weeks prior to requested delivery date.

Carolina™ Terrestrial Isopods

They're crustaceans that live on land - yet breathe through gills!

Sow bugs are fantastic examples of environmental adaptation. *Porcellio* (sow bugs) will play dead or run away when disturbed.

Armadillidium (pill bugs) roll into a protective ball when nudged.

- Easy to care for in a moist environment
- Great for teaching evolution, adaptation, behavior, and much more
- Field collected
- With instructions
- Pack of 50



Cat. No.	Description	Price
S07654ND	Pill Bug	41.25/Pk
S07274ND	Sow Bug	40.50/Pk
S07274CND	Sow Bug Coupon	49.38/Ea

Note: Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, Online web form, or mail. To ensure prompt arrival of material, coupons must be redeemed at least 2 weeks prior to requested delivery date.

Carolina™ Lady Beetle 10-Larvae Culture

Observe all 4 stages of complete metamorphosis with lady beetle larvae.

- Alligator-like larvae grow, pupate and metamorphose in 10 to 14 days.
- At least 5 of the 10 to 15 larvae guaranteed to emerge as healthy adult lady beetles.

Note: Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later

redeem by phone, fax, Online web form, or mail. To ensure prompt arrival of material, coupons must be redeemed at least 2 weeks prior to requested delivery date.



Cat. No.	Description	Price
S72461	Coupon	27.25/Ea
S72460	Live Specimen	17.81/Ea

⚠ ALERTS:
Because this item is a living or perishable material a specified delivery date is required. Orders must be placed through Customer Service at 1-800- 766-7000

Giant Butterfly Garden With Caterpillar Certificate

Experience the metamorphosis of caterpillars into Painted Lady Butterflies five times.

- Collapsible and reusable
- 18 in. Deluxe Habitat
- Easy to maintain
- Oversized stages figures for little hands

INCLUDES:

- Pipette for butterfly feeding
- Extensive instructions
- Painted Lady Butterfly life cycle stages figures

An additional \$7.95 fee is required to redeem the certificate.

ORDERING INFORMATION:

Redeem certificate for five caterpillars



Cat. No.	Description	Price
S65044B	Giant Garden with Caterpillar Certificate which allows you to redeem your caterpillars later	22.50/Ea

Cup of Caterpillars Prepaid Voucher

Prepaid voucher for a Cup of Caterpillars is a refill for Original Butterfly Garden (S17575), Giant Butterfly Garden (S65044B) or Butterfly Pavilion (S65044C).

- Redeem it for one cup of 5 caterpillars and all the caterpillar food they need to grow into beautiful butterflies
- Price includes express delivery of caterpillars
- Recommended for ages 4 and up with adult supervision



Cat. No.	Description	Price
S65044A	Refill voucher for Giant Butterfly Garden	22.25/Ea

Carolina™ Painted Lady Butterfly Larvae Sets

Teach the concept of butterfly life cycles

The larvae pupate and emerge as adult butterflies in as little as three weeks. Witnessing metamorphosis is an experience that students never forget!

- Kits include sufficient food to enable larvae to emerge as adult butterflies.
- Store at 22° to 25°C

5-Larvae Culture Kit:

- 8 oz. cup with food
- Five *Vanessa cardui* butterfly larvae
- Larvae care instructions

33 Larvae Culture Kit:

- 1 cup of 33 larvae
- 1 cup of food

60 to 75 Larvae Culture Kit:

- 2 cups with a total of 60 to 75 larvae
- 2 cups of food

Note: Additional larvae are supplied with each Larvae/Food Set to ensure that at least the specified amount of larvae emerge as healthy adults. Extra food must be purchased if you wish to maintain additional larvae.



Cat. No.	Description	Price
S07704ND	Painted Lady Butterfly 5 Larvae Culture	18.00/Pk
S07705ND	Painted Lady Butterfly 5 Larvae Culture Coupon	26.75/Ea
S07710ND	Painted Lady Butterfly Culture 33 Larvae Set	51.17/Pk
S07711CND	Painted Lady Culture 33 Larvae Set	60.10/Ea
S07706ND	Painted Lady Butterflies, 60-75 Larvae Set	83.42/Pk

Note: Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, Online web form, or mail. To ensure prompt arrival of material, coupons must be redeemed at least 2 weeks prior to requested delivery date.

⚠️ ALERTS:

Because this item is a living or perishable material a specified delivery date is required. Orders must be placed through Customer Service at 1-800- 766-7000

Carolina™ Butterflies in the Classroom Kit

These kits make keeping live butterflies simple, fun and affordable.

This kit allows students to work hands-on with living butterflies. From a culture cup that contains 33 larvae and food, each student (or pair of students) transfers a larva and food to its own culture vessel, creating an individual chamber for observation. The provided habitat is simple to set up, easy to clean, great for viewing and collapses for convenient storage.



INCLUDES:

- Painted Lady Butterfly Culture (33 larvae with food)
- Painted Lady Butterfly Culture Medium (food)
- Carolina Butterfly Sanctuary
- 33 1 oz. cups with lids
- Five wooden craft sticks
- Five sorting brushes
- 10 Kimwipes™
- Foam flower
- Cotton wick
- Teacher's Manual and Reproducible Student Guide

REQUIRES:

Spray bottle; small bottle or vial; sugar; water; food coloring (optional); host plants (mallow, thistle, daisy, etc. optional)

Cat. No.	Description	Price
S07707ND	Butterflies in the Classroom Kit (with Live Caterpillars)	68.83/Ea
S07708ND	Butterflies in the Classroom Kit (with Prepaid Coupon)	73.73/Ea
S28651	Butterflies in the Classroom Kit Refill	52.08/Ea

Note: Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, online Web form or mail. To ensure prompt arrival of material, coupons must be redeemed at least two weeks prior to requested delivery date.

Carolina™ Individual Butterfly Kit

Raise butterflies in your home or classroom while learning about metamorphosis with the Carolina™ Individual Butterfly Kit.

Easy to use. Easy to raise.

- S28870 comes with live butterfly larvae, pop-up habitat, feeder and instructions
- Perfect for all ages.



Cat. No.	Description	Price
S28870	Live Butterfly Larvae and Complete Instructions	37.25/Ea

⚠️ ALERTS:

Because this item is a living or perishable material a specified delivery date is required. Orders must be placed through Customer Service at 1-800- 766-7000

Original Butterfly Garden and Butterfly Pavilion

Raise butterflies while learning all about metamorphosis in a classroom or at home.

An award-winning butterfly garden that allows students to watch caterpillars transform into Painted Lady butterflies and explore, eat, spin silk and grow up to 10 times their original size. Adult butterflies can be released into the wild. For ages 4 and up with adult supervision.



Butterfly Garden (S17575)

includes:

- Feeding pipette
- Pop-up, reusable 11.5 in. tall mesh habitat
- Caterpillars to Butterflies Instruction Guide
- Voucher for a cup of 5 caterpillars and all the nutritious food they need to develop into adult butterflies (please note that an additional \$7.95 fee is required for shipping and handling of your newborn caterpillars)
- 3 of the 5 caterpillars are guaranteed to develop into adult butterflies
- After transforming into butterflies, unzip the top to set the butterflies free
- Dimension: 12 × 3 × 12 in. (30.4 × 7.6 × 30.4cm)

Butterfly Pavilion (S65044C) includes:

- 6 of the 10 caterpillars are guaranteed to develop into perfect specimen
- Pop-up, reusable 2-foot tall cylindrical mesh habitat perfect for butterfly viewing in the home or classroom. Pavilion has velcro strap for hanging or can be folded when not in use
- Feeding Pipette
- Complete Caterpillars to Butterflies Instruction Guide

Cat. No.	Description	Price
S17575	Original Butterfly Garden with Voucher	19.00/Ea
S65044C	Butterfly Pavilion	69.50/Ea

Carolina™ Mealworms

The adult mealworm lays hundreds of eggs and is the best stage to start a balanced culture. Larvae are ideal food for lizards, salamanders, turtles, and frogs.

- *Tenebrio*
- Pupae metamorphose into adults in about two to four weeks
- Includes care instructions
- Pack of 100



Cat. No.	Description	For Use With (Application)	Price
S07275ND	Mealworm	Ideal food for lizards, salamanders, turtles and frogs.	12.77/Pk

Note: Prepaid coupons allow you to order your organisms in advance. We'll send a coupon(s) that you later redeem by phone, fax, Online web form, or mail. To ensure prompt arrival of material, coupons must be redeemed at least 2 weeks prior to requested delivery date.

Vertebrates

Grow-A-Frog Kit

Visualize metamorphosis with this amazing kit.



Unique clear-skinned tadpoles allow students to watch the growth of the tadpole into a frog inside as well as outside.

INCLUDES:

- Plex-Aquarium: 4.4 × 3.6 in. (11 × 9cm)
- Nutri-Rocks
- Underwater landscape
- Vitamin-rich growth food
- Fun 'n' Fact Handbook
- Coupon for one Grow-A-Frog tadpole

Cat. No.	Description	Price
S19118A	Grow A Frog Kit	32.64/Ea

Carolina™ Marine Fish Set

Add these exciting fish to your classroom aquarium.



- A selection of 11 fish specially selected for a classroom community marine tank

INCLUDES:

- Typical fish like: Chalk basslets, Royal grammas, Clown gobies, Watchman gobies, Damselfish, and Blennies

Cat. No.	Description	Price
S07261ND	Marine Fish Set	157.82/Ea

⚠️ ALERTS:

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Carolina™ Largemouth Bass

These fish are very hardy in aquaria maintained at controlled room temperatures.



Can be used in aquaria and outdoor pools and for toxicity studies.

- Length ranges from one to three inches (length of a fish includes the tail fin)
- With instructions
- Pack of 3

Cat. No.	Description	Price
S07713ND	Largemouth Bass	30.96/Pk

Carolina™ Blue Channel Catfish

A slender, bluish-gray fish that is a good bottom scavenger.



These fish are very hardy in aquaria maintained at controlled room temperatures.

- *Ictalurus punctatus*
- Popular aquaculture species
- Length ranges from one to two inches (length of a fish includes the tail fin)
- With instructions
- Pack of 3

Note 1: Restricted in Alaska, Oregon and California. Permit required prior to purchase in Nevada and Virginia.

Note 2: These fish do not ship well during hot weather.

Cat. No.	Description	Price
S07715ND	Blue Channel Catfish	22.46/Pk

Animal Collection & Habitats

Eisco Polycarbonate Aquarium Tank

Polycarbonate aquarium tank features the clarity of glass with the durability and safety of plastic. Made from tough polycarbonate plastic, it is crack resistant and also carries a natural UV filtering quality.



NEW

- One piece molded polycarbonate plastic aquarium tank
- Use for terrarium, aquarium, or insect habitat
- Transparency provides excellent visibility
- UV protectant

Cat. No.	Description	Price
S26596	1.75 gal. Tank	18.25/Ea
S26603	0.75 gal. Tank	10.25/Ea

Student Project Tanks

Student Project Tanks constructed of clear polycarbonate are designed to not crack or break.



NEW

- Molded of a shatter-resistant polycarbonate material that resists scratches, dents, and clouding-up
- For long term classroom use
- Tanks and lids also naturally resist many acids and oils to maintain a clear student view
- Easy to clean and maintain
- Can withstand the abuse of daily classroom use
- Includes: 1 PC clear tank 1 PC clear lid, 1 PC clear drain shelf, 2 solid polyamide plugs, 2 vented polyamide plugs, 2 clear plastic/SS clamps
- Pop-out plugs are supplied both as solid and vented allowing versatility in use
- Included clamps will secure down the lid
- Tank accessory pack includes 2 of each plug and 2 plastic clips

Cat. No.	Description	Price
S30678	3.79 L Tank	17.00/Ea
S30765	11.35 L Tank	33.50/Ea

Stay Connected with the Fisher Science Education Team

Follow us on



Eisco Insect Collecting Net

Strong enough for student activities.

- 11.8 in. dia. (30cm) iron wire ring with 9.8 in. dia. (25cm) net opening
- 29.5 in.L (75cm) aluminum or wooden handle with fine grip at end
- 2 in. (5cm) wide cloth rim



Cat. No.	Description	Price
S95935N	Wooden Handle	25.75/Ea
S95939	Aluminum Handle	35.00/Ea

Eisco Insect Collecting Nets

For safely collecting insects.

- Net for catching insects
- 12 in. diameter net with wire ring
- Net is 31 in. deep

WARRANTY:

1 year limited manufacturer warranty

Cat. No.	Description	Price
S29533	Collecting Net with 30 in. Wooden Handle	22.75/Ea
S29344	Collecting Net with 30 in. Aluminum Handle	33.50/Ea



Eisco Sweeping Net

Eisco Sweeping Net designed for sweeping vegetation to collect insects features a light weight aluminum handle with rubber grip.

- Sweeping net used to collect insects from vegetation
- 10 in. Diameter frame
- 12 in. deep nylon net
- 36 in. lightweight aluminum handle with rubber grip
- Great durability



WARRANTY:

1 year limited manufacturer warranty

Cat. No.	Description	Price
S29348	Length: 121.9 cm	29.00/Ea



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Ladybug Land

Discover the land of the ladybugs.



- Watch ladybugs grow from larvae to adults
- Dimensions (L x W x H): 10 x 7.5 x 8 in. (25 x 18.8 x 20cm)

ORDERING INFORMATION:

Grades PreK+. Allow two weeks for delivery. Available in continental U.S. and Alaska only. **Redemption fee applies when certificate is mailed in. Postage and handling fee required.**

INCLUDES:

- Sturdy plastic habitat base
- See-through magnifier plastic dome cap
- Instructions
- Mail-in certificate for 15 to 20 pink-spotted ladybug larvae and special food

Cat. No.	Description	Price
S79118	Ladybug Land	6.20/Ea

⚠ ALERTS:

Because this item is a living or perishable material a specified delivery date is required. Orders must be placed through Customer Service at 1-800- 766-7000



Learn More

Fisher Science Education™ Bio-Fresh™ Specimens specimens are fixed with formaldehyde and then repeatedly washed in Bio-Fresh solution to reduce residual formaldehyde. Every specimen meets or exceeds OSHA standards for formaldehyde in the lab. **See p. 42** for concentrated solution. Look for the Bio-Fresh name on a variety of specimens beginning on **p. 18**.

Identify Major Systems

- Single injected: Red latex in the arterial system
- Double injected: Blue latex in venous system, red in arterial system
- Triple injected: Yellow latex in the hepatic portal system, blue in the venous system, and red in the arterial system

Safety, Storage, and Disposal

- Fisher Science Education specimens meet or exceed OSHA formaldehyde standards of less than 0.75ppm for eight hours of exposure in a ventilated lab space
- Refrigeration is not necessary, but extreme temperatures (low and high) should be avoided
- Keep vac-packs sealed until needed, then store specimens in Bio-Fresh holding solution for reuse
- Disposal is simple — treat specimens and liquids like any other solid and liquid waste
- Always follow your area's guidelines for disposal, dumping, or incineration

Packaging and Labeling

- Most specimens are available in pails or vacuum-sealed plastic bags
- Some smaller specimens come in jars, where indicated

Bio-Fresh Pails

- Filled with Bio-Fresh preservative for safe shipping and easy storage of specimens
- Ideal for specimens intended for reuse
- Contents, lot numbers, and production dates are printed on every label
- Due to the weight of the liquid, special shipping charges apply

Vac-Packs

- Good solution for customers who already have storage methods (pails, plastic bags, etc.)
- Individually packaged specimens are very convenient and easy to distribute to students
- Smaller specimens such as grasshoppers and sheep eyes come in packs of 10 to reduce waste
- Heat sealed with three layers of impermeable plastic and stamped with a production date and lot number

The Fisher Science Education team is committed to providing the highest quality specimens and service.

- All biological specimens are guaranteed for one year
- Receive a full credit on any defective merchandise
- Call Fisher Science Education customer service at **1-800-955-1177** for more information

Specimen Acquisition

We recognize the role that respect for life and the environment play in biology education, which is why only humane and socially acceptable methods of collection are used for the specimens you'll receive. We select suppliers who are in strict accordance with all government guidelines and regulations, and who have all necessary permits for obtaining, processing, and transporting specimens. Endangered, threatened, and protected wildlife will never be sold.



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Preserved Specimens

Invertebrates

Clam Anatomy Kit



Comprehensive dissection kit designed for distance learning. Each kit allows 1 to 2 students to study the clam, a simple species that allows for careful observation and introduction to dissecting.

- Kit is designed for 1 to 2 students to conduct extensive dissections in the classroom or in their own home.
- Included dissection guide provides in-depth information on the specimen's anatomy
- Optional Dissection Tool Kit is included where indicated, featuring scissors, T-pins, Steel forceps, a Teasing needle and a Plastic ruler.
- Each specimen is preserved in formalin fixative, but washed and shipped in a unique process that is safe and ensures a hassle-free setup, dissection, and disposal.
- Information packets are included in each kit, along with detailed instructions on how to dispose of the specimen.



Cat. No.	Description	Price
S81540	Fresh water clam with Dissection Tools, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag, Scissors, T-pins × 6, Forceps, Teasing needle, Ruler	22.64/Ea
S81541	Fresh water clam, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag	15.09/Ea

Carolina™ Formalin Quahog

For use in exploring anatomy of marine clams. Carolina™ Formalin Quahog is ideal for studying bivalve anatomy.

- *Venus sp.*
- Large, thick-shelled marine clams
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde



Cat. No.	Description	Price
S37690*	Formalin Quahog	28.00/Ea

Bio-Fresh™ Clams

- In Fisher Science Education Bio-Fresh™ solution
- Large, 4 to 5 in.
- Pail packaging
- Pack of 10



Cat. No.	Description	Price
S5002P	Mollusca Clam	25.00/Pk

Carolina™ Formalin Blue Crab

Carolina™ Formalin Blue Crab is ideal for exploring the anatomy of an advanced crustacean in the classroom. Great for invertebrate and comparative anatomy classes.

- Blue Crab (*Callinectes sp.*)
- Great for studying crustacean anatomy
- Preserved in formalin
- Shipped 10 per pail
- Shipped in Carosafe™ Carolina's proprietary shipping and holding fluid
- Carosafe minimizes student and educator exposure to formaldehyde

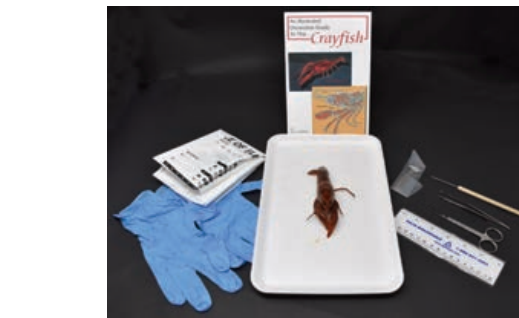


Cat. No.	Description	Price
S72736*	Formalin Blue Crab	49.00/Ea

Crayfish Anatomy Kit



Comprehensive dissection kit designed for distance learning. Each kit introduces 1 to 2 students to the crayfish's anatomy.



- Kit is designed for 1 to 2 students to conduct extensive dissections in the classroom or in their own home.
- Included dissection guide provides in-depth information on the specimen's anatomy
- Optional Dissection Tool Kit is included where indicated, featuring scissors, T-pins, Steel forceps, a Teasing needle and a Plastic ruler.
- Each specimen is preserved in formalin fixative, but washed and shipped in a unique process that is safe and ensures a hassle-free setup, dissection, and disposal.
- Information packets are included in each kit, along with detailed instructions on how to dispose of the specimen.

Cat. No.	Description	Price
S81528	Crayfish with Dissection Tools, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag, Scissors, T-pins × 6, Forceps, Teasing needle, Ruler	18.00/Ea
S81529	Crayfish, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag	15.09/Ea

! * California - WARNING: Cancer www.P65Warnings.ca.gov
 ** California - WARNING: Reproductive Harm www.P65Warnings.ca.gov
 *** California - WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Crayfish

Cambarus sp.

One of the most popular arthropod dissection specimens. They are inexpensive and large and their internal organs are easy to observe. Single-injected specimens have the heart, arteries and gills filled with colored latex.



- 4 to 6 in. in length
- Large
- Plain injection type
- Pack of 10

Cat. No.	Description	Price
S400210	Crayfish	22.25/Pk

Annelida

Segmented worms, Oligochaeta for dissection.

- A variety of organisms that illustrate different biological phenomena
- Choose from segmented worms which are hermaphroditic or separate sexes
- In Fisher Science Education Bio-Fresh™ solution
- 10+ in. in length
- Plain injection type
- Pack of 10



Cat. No.	Description	Price
S5100S*	Annelida Segmented Worm	19.50/Pk



Log in to your account
on fisheredu.com
to see your discounts.



* California - WARNING: Cancer www.P65Warnings.ca.gov

** California - WARNING: Reproductive Harm www.P65Warnings.ca.gov

*** California - WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Carolina™ Carolina™ Formalin Grasshoppers

Carolina™ Formalin Grasshoppers are an excellent introductory specimen for dissecting and studying insect anatomy

- Louisiana Lubber Grasshoppers (*Romalea microptera* or *Brachystoma*)
- Perfect introductory dissection specimen
- Large size is perfect for studying specialized external and internal anatomy
- Preserved in formalin
- Shipped 10 per jar
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid which minimizes student and educator exposure to formaldehyde



INJECTION KEY

PLAIN: Circulatory system not injected with colors.

SINGLE: Arteries injected with red latex.

Cat. No.	Description	Price
S72459*	Plain	7.55/Pk
S72737*	Single	27.00/Ea

Carolina™ Formalin Lamprey

Carolina™ Formalin Lamprey is for use in examining the anatomy of the jawless fish. Ideal for comparative anatomy classes and discussions about common ancestry and diversity.

- Member of class *Agnatha*
- Mature specimens
- Characteristics: jawless vertebrate, paired gill openings, no paired fins, well developed eyes
- Shipped in Carosafe™ Carolina's proprietary shipping and holding fluid
- Carosafe minimizes student and educator exposure to formaldehyde



Cat. No.	Description	Price
S72733*	Formalin Lamprey, Plain, 1 Per Bag	14.40/Ea

Squid Anatomy Kit

Comprehensive dissection kit designed for distance learning. Each kit introduces 1 to 2 students to animal anatomy through the dissection of a squid, an ideal invertebrate specimen with unique structures.



- Kit is designed for 1 to 2 students to conduct extensive dissections in the classroom or in their own home.
- Included dissection guide provides in-depth information on the specimen's anatomy
- Optional Dissection Tool Kit is included where indicated, featuring scissors, T-pins, Steel forceps, a Teasing needle and a Plastic ruler.
- Each specimen is preserved in formalin fixative, but washed and shipped in a unique process that is safe and ensures a hassle-free setup, dissection, and disposal.
- Information packets are included in each kit, along with detailed instructions on how to dispose of the specimen.

Cat. No.	Description	Price
S81526	Squid with Dissection Tools, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag, Scissors, T-pins × 6, Forceps, Teasing needle, Ruler	24.53/Ea
S81527	Squid, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag	13.00/Ea

Carolina™ Formalin Squid

For use in exploring form and function of cephalopods. Carolina™ Formalin Squid is complex mollusk with tentacles, arms, and well-developed eye.

- *Loligo pealeii* or *Illex illecebrosus*
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde
- INJECTIONS: Plain: no color



Cat. No.	Length	Injection Type	Price
S37625*	8 to 12 in.	Plain	5.35/Ea

* California - WARNING: Cancer www.P65Warnings.ca.gov
 ** California - WARNING: Reproductive Harm www.P65Warnings.ca.gov
 *** California - WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Squid

Loligo sp.

- One of the most developed mollusks
- With well-developed eyes, the squid is a predatory and extremely active animal
- Used for grasping small fish and feeding their horny beaks, their tentacles are highly modified homologues of the clam or snail "foot"
- Pack of 10



INJECTION KEY

PLAIN: Circulatory system not injected with colors.
SINGLE: Arteries injected with red latex.

Cat. No.	Length	Quantity	Injection Type	Price
S3072S*	5 to 8 in.	200/Cs	Plain	47.25/Pk
S5105*	8 to 12 in.	10 Pack	Plain	78.00/Pk
S3056S*	12 to 16 in.	50/Cs	Plain	101.00/Pk
S3094S*	5 to 8 in.	10 Pack	Single	50.18/Pk

Starfish Anatomy Kit

Comprehensive dissection kit designed for distance learning. Each kit allows 1 to 2 students to explore the anatomy of the starfish.



- Kit is designed for 1 to 2 students to conduct extensive dissections in the classroom or in their own home.
- Included dissection guide provides in-depth information on the specimen's anatomy
- Optional Dissection Tool Kit is included where indicated, featuring scissors, T-pins, Steel forceps, a Teasing needle and a Plastic ruler.
- Each specimen is preserved in formalin fixative, but washed and shipped in a unique process that is safe and ensures a hassle-free setup, dissection, and disposal.
- Information packets are included in each kit, along with detailed instructions on how to dispose of the specimen.



Cat. No.	Description	Price
S81525	Starfish, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag	18.87/Ea
S81524	Starfish with Dissection Tools, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag, Scissors, T-pins × 6, Forceps, Teasing needle, Ruler	21.00/Ea

Carolina™ Formalin Starfish

For use in study of invertebrate anatomy. Carolina™ Formalin Starfish is ideal introductory dissection specimen.

- *Asterias* or *Pisaster sp.*
- Representative echinoderm
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde



Cat. No.	Length	Quantity	Price
S37697*	6-8 in.	5/bag	12.00/Ea

Vertebrates

Amphibians

Advanced Frog Anatomy Kit



Comprehensive dissection kit designed for distance learning. Each kit introduces 1 to 2 students to basic vertebrate anatomy by dissecting a frog.



- Kit is designed for 1 to 2 students to conduct extensive dissections in the classroom or in their own home.
- Included dissection guide provides in-depth information on the specimen's anatomy
- Optional Dissection Tool Kit is included where indicated, featuring scissors, T-pins, Steel forceps, a Teasing needle and a Plastic ruler.
- Each specimen is preserved in formalin fixative, but washed and shipped in a unique process that is safe and ensures a hassle-free setup, dissection, and disposal.
- Information packets are included in each kit, along with detailed instructions on how to dispose of the specimen.

Cat. No.	Description	Price
S81508	Bullfrog with Dissection Tools, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag, Scissors, T-pins × 6, Forceps, Teasing needle, Ruler	43.40/Ea
S81509	Bullfrog, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag	35.85/Ea

Carolina™ Formalin Bullfrogs

For use in introducing students to vertebrate anatomy. Carolina™ Formalin Bullfrogs are ideal for studying amphibian anatomy, adaptations, and body systems.

- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde
- INJECTIONS:
Double: red arteries, blue hepatic



Cat. No.	Description	Price
S37639*	Formalin Bullfrog	19.75/Ea

Bullfrogs, Bio-Fresh™

Rana catesbeiana



- Provides students with a good specimen for an in-depth dissection study of amphibians
- Animals injected with colored latex to identify arteries and veins are available
- Rinsed and held in Fisher Science Education Bio-Fresh™

ORDERING INFORMATION:

INJECTION KEY

Plain: Circulatory system not injected with colors.

Single: Arteries injected with red latex.

Double: Arteries red, veins blue.

Triple: Arteries red, veins blue and hepatic portal veins yellow.

Cat. No.	Injection Type	Length	Price
S1354S*	Single	4 to 5 in.	11.75/Pk
S170510*	Plain	6 to 7 in.	163.07/Pk
S1704*	Double	5 to 6 in.	20.75/Pk

Frog Economy Class Dissection Packs



Economy Class Pack includes 30 specimens and a set of 15 dissection guides, all at one economical price.

- Frog Pack: 4- 5 in. plain grassfrogs; *An Illustrated Dissection Guide to the Frog* (16 pgs.)

Cat. No.	Description	Includes	Price
S06928	Frog Economy Class Pack	Three ten packs of 4 to 5 in. plain Grassfrogs, fifteen copies of 16 page and 14 figure guides set	259.75/Ea



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Frog Anatomy Kits



Comprehensive dissection kit designed for distance learning. Each kit introduces 1 to 2 students to basic vertebrate anatomy through the dissection of the frog.



- Kit is designed for 1 to 2 students to conduct extensive dissections in the classroom or in their own home.
- Included dissection guide provides in-depth information on the specimen's anatomy
- Each specimen is preserved in formalin fixative, but washed and shipped in a unique process that is safe and ensures a hassle-free setup, dissection, and disposal.
- Information packets are included in each kit, along with detailed instructions on how to dispose of the specimen.
- Single or double injected

INJECTION KEY

Single: Arteries injected with red latex.
Double: Arteries red, veins blue.

Cat. No.	Description	Price
Plain Injected Frogs		
S81533	Frog, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag	20.75/Ea
S81532	Frog with Dissection Kit, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag, Scissors, T-pins × 6, Forceps, Teasing needle, Ruler	28.30/Ea
Double-Injected Frogs		
S81506	Frog with Dissection Kit, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag, Scissors, T-pins × 6, Forceps, Teasing needle, Ruler	30.19/Ea
S81507	Frog, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag	22.64/Ea

Carolina™ Formalin Frogs

For use in introducing students to vertebrate anatomy. Carolina™ Formalin Frogs are grass frogs and are ideal for study of body systems.

- No need for scalpel – students only need dissecting scissors
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde
- Plain injection; circulatory system is uncolored



Cat. No.	Length	Quantity	Price
S37715*	3 to 4 in.	10/Bag	39.75/Ea
S37712*	4 to 5 in.	10/Bag	66.25/Ea
S37643*	4 to 5 in.	1/Bag	6.65/Ea

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Frogs

Bio-Fresh™ frog specimens are fixed in formaldehyde, repeatedly rinsed and packaged in Fisher Science Education Bio-Fresh solution. These budget-friendly specimens meet or exceed OSHA lab standards for formaldehyde, and are available with colored latex injections.



Fisher-Free™ frog specimens are 100% formaldehyde-free. They are stored in a nontoxic solution and are mold- and stiffening-resistant. Available with colored latex injections.

INJECTION KEY

- **Plain:** Circulatory system not injected with colors
- **Single:** Arteries injected with red latex
- **Double:** Arteries red, veins blue

Cat. No.	Injection Type	Length	Quantity	Price
Bio-Fresh Preservative				
S1631S*	Plain	4.5 to 5.5 in.	10 Pack	89.00/Pk
S1619S*	Plain	4 to 4.5 in.	10 Pack	60.75/Pk
S1643S*	Double	3.5 to 4 in.	200/CS	54.00/Pk
S1623S*	Single	4 to 4.5 in.	10 Pack	67.25/Pk
S1672S*	Double	4 to 4.5 in.	120/CS	78.00/Pk
S1635S50*	Plain	3.5 to 4 in.	50/Pail	187.00/Pk
S1619S10*	Plain	4 to 4.5 in.	10/Pail	63.75/Pk
S1611S*	Double	4.5 to 5.5 in.	100/CS	111.00/Pk
S1619S100*	Plain	4 to 4.5 in.	100/Pail	603.00/Pk
S1619S50*	Plain	4 to 4.5 in.	50/Pail	303.00/Pk
Fisher-Free Preservative				
S0901S	Plain	4 to 4.5 in.	120/CS	93.00/Pk
S0902S	Single	4 to 4.5 in.	10 Pack	101.00/Pk
S0930S	Plain	4.5 to 5.5 in.	100/CS	143.00/Pk

Carolina™ Formalin Salamanders



Preserved larval tiger salamander are great for exploring amphibian anatomy and advancing the study of evolutionary biology.

- *Ambystoma sp.*
- Larval tiger salamanders
- Similar to *Necturus sp.*, with external gills, gill slits, and a long caudal fin. Different in that tiger salamanders can undergo complete metamorphosis to transition to a terrestrial habitat and have 5 digits on their hindlimbs instead of 4.
- Some may retain their larval characteristics and still reach sexual maturity, a phenomenon called neoteny.
- Preserved in formalin
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe™ is an odorless fluid designed to minimize the unpleasant odor of formaldehyde



Cat. No.	Quantity	Price
S81621	1/Bag	6.85/Ea
S81622	10/Bag	68.50/Pk

Birds

Pigeon Anatomy Kit



Comprehensive dissection kit designed for distance learning. Each kit introduces 1 to 2 students to the avian anatomy and organ systems through the dissection of a pigeon.



- Kit is designed for 1 to 2 students to conduct extensive dissections in the classroom or in their own home.
- Included dissection guide provides in-depth information on the specimen's anatomy
- Optional Dissection Tool Kit is included where indicated, featuring scissors, T-pins, Steel forceps, a Teasing needle and a Plastic ruler.
- Each specimen is preserved in formalin fixative, but washed and shipped in a unique process that is safe and ensures a hassle-free setup, dissection, and disposal.
- Information packets are included in each kit, along with detailed instructions on how to dispose of the specimen.

Cat. No.	Description	Price
S81520	Pigeon with Dissection Kit, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag, Scissors, T-pins × 6, Forceps, Teasing needle, Ruler	38.68/Ea
S81521	Pigeon, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag	31.13/Ea

Carolina™ Formalin Pigeon

For use in exploring avian anatomy. Carolina™ Formalin Pigeon is ideal for comparative vertebrate courses.

- Family Columbidae
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde
- Plain injection; circulatory system not colored



Cat. No.	Description	Price
S37649*	Formalin Pigeon	14.50/Ea

Pigeons

Columba sp.

Large adult pigeon specimens provide an in-depth view of several traits that all birds share:



- Skin with feathers
- Wings
- Two legs
- Four-chambered heart
- Horny beak
- Fisher-Free™

INJECTION KEY

DOUBLE: Arteries red, veins blue

Cat. No.	Description	Price
S2403S*	Pigeons	17.75/Pk

Fish

Perch Anatomy Kit



Comprehensive dissection kit designed for distance learning. Each kit allows 1 to 2 students to improve their specimen observation skills and achieve a better understanding of bony fish anatomy.



- Kit is designed for 1 to 2 students to conduct extensive dissections in the classroom or in their own home.
- Included dissection guide provides in-depth information on the specimen's anatomy
- Optional Dissection Tool Kit is included where indicated, featuring scissors, T-pins, Steel forceps, a Teasing needle and a Plastic ruler.
- Each specimen is preserved in formalin fixative, but washed and shipped in a unique process that is safe and ensures a hassle-free setup, dissection, and disposal.
- Information packets are included in each kit, along with detailed instructions on how to dispose of the specimen.

Cat. No.	Description	Price
S81530	Perch with Dissection Kit, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag, Scissors, T-pins × 6, Forceps, Teasing needle, Ruler	24.53/Ea
S81531	Perch, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag	16.98/Ea

Carolina™ Formalin Dogfish Sharks



For use in exploring anatomy of cartilaginous fish. Carolina™ Formalin Dogfish Sharks are ideal for comparative and vertebrate anatomy classes.

- Member of class Chondrichthyes
- Mature specimens
- Characteristics: cartilaginous skeleton, five pairs of gill slits, no swim bladder or operculum
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid



INJECTION KEY

PLAIN: Circulatory system not injected with colors

Single: Arteries injected with red latex

Double: Arteries red, veins blue

Cat. No.	Length	Injection Type	Price
S72731	18 to 22 in.	Plain	12.00/Ea
S37631	27+ in.	Single	17.50/Ea
S72730	18 to 22 in.	Double	16.25/Ea
S72732	27+ in.	Double; Pregnant	26.50/Ea



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Shark Anatomy Kit



Comprehensive dissection kit designed for distance learning. Each kit allows 1 to 2 students to explore the internal organs and organ systems of a dogfish shark.



- Kit is designed for 1 to 2 students to conduct extensive dissections in the classroom or in their own home.
- Included dissection guide provides in-depth information on the specimen's anatomy
- Optional Dissection Tool Kit is included where indicated, featuring scissors, T-pins, Steel forceps, a Teasing needle and a Plastic ruler.
- Each specimen is preserved in formalin fixative, but washed and shipped in a unique process that is safe and ensures a hassle-free setup, dissection, and disposal.
- Information packets are included in each kit, along with detailed instructions on how to dispose of the specimen.

Cat. No.	Description	Price
S81510	Shark with Dissection Kit, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag, Scissors, T-pins × 6, Forceps, Teasing needle, Ruler	45.28/Ea
S81511	Shark, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag	37.74/Ea

Dogfish Sharks

Squalus acanthius

Sharks and the cartilaginous skeletoned fishes are representatives of a group of fish whose ancestors were the first jaw-bearing vertebrates. Except for skeletal degeneration, sharks are good examples of a fairly primitive type.



- These sharks are from the Class *Chondrichthyes Elasmobranchii squalus*, the dogfish sharks
- Shark color injections differ from the standard color progression (see Injection Key)
- Packed in Fisher Science Education™ Bio-Fresh™
- Pack of 1

ORDERING INFORMATION: INJECTION KEY

- **Plain:** Circulatory system not injected with colors
- **Single:** Arterial system injected with red latex
- **Double:** Hepatic portal system injected with blue latex
- **Triple:** Systemic veins injected with yellow latex

Cat. No.	Injection Type	Length	Quantity	Price
S1509S*	Plain	18 to 22 in.	15/Cs	10.91/Pk
S1501*	Plain	22 to 27 in.	Each	15.75/Pk
S1503S*	Plain	27+ in.	10/Cs	20.25/Pk
S1030S*	Single	27+ in.	Each	22.00/Pk
S1504*	Double	27+ in.	Each	24.00/Pk
S1505*	Triple	27+ in.	10/Cs	28.50/Pk

Mammals

Carolina™ Formalin Cats



Formalin-preserved cats are ideal dissection specimens for advanced biology and anatomy and physiology classes.



- *Felis catus*
- Ideal specimen for studying advanced mammalian anatomy and physiology
- Similar to human anatomy
- Preserved in formalin
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe™ is an odorless fluid designed to minimize the unpleasant odor of formaldehyde
- Double: red arteries, blue systemic veins

Cat. No.	Description	Price
S81620	Double Injection Formalin Cat	107.00/Ea

Cat Anatomy Kit



Comprehensive dissection kit designed for distance learning. Each kit introduces 1 to 2 students to basic mammalian anatomy and organ systems through the dissection of a cat.

- Kit is designed for 1 to 2 students to conduct extensive dissections in the classroom or in their own home.
- Included dissection guide provides in-depth information on the specimen's anatomy
- Optional Dissection Tool Kit is included where indicated, featuring scissors, T-pins, Steel forceps, a Teasing needle and a Plastic ruler.



- Each specimen is preserved in formalin fixative, but washed and shipped in a unique process that is safe and ensures a hassle-free setup, dissection, and disposal.
- Information packets are included in each kit, along with detailed instructions on how to dispose of the specimen.

Cat. No.	Description	Price
S81517	Skinned cat, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag	83.00/Ea
S81516	Skinned cat with Dissection Kit, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag, Scissors, 6 T-pins, Forceps, Teasing needle, Ruler	91.00/Ea



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Skinned Cat Anatomy Kit

Double injected skinned cat is preserved in sage, non-toxic solution and packaged in a vacuum-sealed bag.



- Cat is double injected (arterial system, red; venous system, blue)
- Provided in a vacuum-sealed bag
- Does not include dissection tools, safe equipment, or additional dissection material

Cat. No.	Length	Price
S81557	14 to 18 in.	76.00/Ea
S81555	18 in.	90.75/Ea

Carolina™ Formalin Cats

For use in advanced biology, anatomy and physiology classes. Carolina™ Formalin Cats are ideal dissection specimens.

- *Felis catus*
- Similar to human anatomy
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde
- Double injection; red arteries and blue veins
- Specimens are 18 in. in length on average



Cat. No.	Injection Type	Price
S37653ND*	Double	108.00/Ea

Carolina™ Formalin Mink

Used in lab experiments which ensures safe and non-toxic environment. Carolina™ Formalin Mink are packaged in waterproof plastic bags.



- Ranch-raised, formalin-preserved mink
- 15 in. in length
- Waterproof student name tags are furnished free with each mink

ORDERING INFORMATION:

This item is sold and shipped to schools and businesses only. Not available to individuals or residential addresses

Cat. No.	Injection Type	Price
S37304*	Plain	14.50/Ea
S37305*	Double (Red latex in arterial system, blue latex in systemic veins)	17.00/Ea
S37306*	Triple (Red latex in arterial system, blue latex in systemic veins, yellow latex in hepatic system)	19.50/Ea

Mink

Mustela vison

Like rabbits, mink are an excellent alternative or addition to cat dissections.



- Average 13 to 17 in. (33–43cm)
- Preskinned to reduce lab waste and save time in dissection preparation
- Slender with very small amounts of adipose tissue
- May have cut hands and feet from skinning process
- Oily; processed in formaldehyde, rinsed and held in Fisher Science Education Bio-Fresh™, in vacuum-packed bags
- Double injection; red arteries and blue veins

Cat. No.	Description	Price
S9212S*	Double-injection Mink	21.00/Pk

Pig Anatomy Kit

Comprehensive dissection kit designed for distance learning. Each kit introduces 1 to 2 students to basic mammalian anatomy and circulatory system through the dissection of a fetal pig.



- Kit is designed for 1 to 2 students to conduct extensive dissections in the classroom or in their own home.
- Included dissection guide provides in-depth information on the specimen's anatomy
- Optional Dissection Tool Kit is included where indicated, featuring scissors, T-pins, Steel forceps, a Teasing needle and a Plastic ruler.
- Each specimen is preserved in formalin fixative, but washed and shipped in a unique process that is safe and ensures a hassle-free setup, dissection, and disposal.
- Information packets are included in each kit, along with detailed instructions on how to dispose of the specimen.

Cat. No.	Description	Price
S81514	Fetal pig with Dissection Tools, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag, Scissors, T-pins × 6, Forceps, Teasing needle, Ruler	39.62/Ea
S81515	Fetal pig, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag	32.08/Ea



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Fetal Pigs

Sus scrofa

- Ideally suited for high school and freshman college courses where the emphasis is on basic internal anatomy
- Perfect for the beginning biology class because of its cost, availability, size and easy dissection
- Artiodactyla order is characterized by having an even number of toes
- Bio-Fresh™ specimens are fixed in formaldehyde, rinsed and packaged in Fisher Science Education Bio-Fresh solution
- Fisher-Free™ specimens are 100% formaldehyde free — fixed and held in a nontoxic solution



Note: Because it is a fetal specimen, musculature is not fully toned for an in-depth dissection.

ORDERING INFORMATION:

INJECTION KEY

- Plain: Circulatory system not injected with colors
- Single: Arteries injected with red latex
- Double: Arteries red, veins blue
- Triple: Arteries red, veins blue, and hepatic portal veins yellow.

Cat. No.	Injection Type	Length	Quantity	Price
Bio-Fresh				
S1580S*	Plain	5 to 7 in.	50/Cs	87.00/Pk
S1588S*	Plain	7 to 11 in.	6/Cs	29.00/Pk
S1592S*	Double	7 to 11 in.	Each	29.25/Pk
S1588S10*	Plain	7 to 11 in.	10 Pack	260.00/Pk
S1590S*	Single	7 to 11 in.	Each	25.75/Pk
S1594S*	Plain	11 to 13 in.	Each	21.50/Pk
S1596S*	Single	11 to 13 in.	Each	24.00/Pk
S1598S*	Double	11 to 13 in.	5/Cs	26.75/Pk
S1596S10*	Single	11 to 13 in.	10 Pack	281.00/Pk
S1594S10*	Plain	11 to 13 in.	10 Pack	258.00/Pk
S1598S10*	Double	11 to 13 in.	10 Pack	283.00/Pk
S1190S*	Plain	13+ in.	Each	22.25/Pk
S1194S*	Single	13+ in.	Each	23.50/Pk
S1599S*	Double	13+ in.	Each	27.00/Pk
S1599S10*	Double	13+ in.	10 Pack	285.00/Pk
S1594VS*	Plain	11-13 in.	Each	255.00/Pk
S1598VS*	Double	11-13 in.	Each	283.00/Pk
S1190VS*	Plain	13+ in.	Each	248.00/Pk
Fisher-Free				
S1237S	Single	7 to 11 in.	Each	27.14/Pk
S1233S	Plain	11 to 13 in.	Each	26.50/Pk
S1235S	Double	11 to 13 in.	Each	30.00/Pk
S1231S	Single	13+ in.	Each	27.28/Pk
S1232S	Double	13+ in.	Each	29.00/Pk

Carolina™ Formalin Pigs

For use in introducing students to mammalian anatomy. Carolina™ Formalin Pigs do not have well defined musculature.



- Fetal and/or stillborn pigs
- Mainly used in basic high school and college biology classes
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odors

Cat. No.	Injection Type	Length (English)	Length (Metric)	Price
S37667*	Plain	11 to 14 in.	27.9 to 35.5cm	24.75/Ea
S37671*	Single	7 to 11 in.	17.7 to 27.9cm	21.50/Ea
S37669*	Double	11 to 14 in.	27.9 to 35.5cm	25.00/Ea

Carolina™ Formalin Rabbits

Carolina™ Formalin Rabbits facilitates the study and dissection of mammalian anatomy

- Can be used as a preserved cat alternative with minimal differences
- Makes it easy to study musculature and internal anatomy
- Mature specimens
- Preserved in formalin
- Shipped 1 per bag
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid which minimizes student and educator exposure to formaldehyde



Cat. No.	Injection Type	Price
S72457*	Double (red arteries and blue systemic veins)	57.50/Ea



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Rabbit Anatomy Kit



Comprehensive dissection kit designed for distance learning. Each kit allows 1 to 2 students to easily study basic mammalian anatomy and organ systems through the dissection of a rabbit.

- Kit is designed for 1 to 2 students to conduct extensive dissections in the classroom or in their own home.
- Included dissection guide provides in-depth information on the specimen's anatomy
- Optional Dissection Tool Kit is included where indicated, featuring scissors, T-pins, Steel forceps, a Teasing needle and a Plastic ruler.
- Each specimen is preserved in formalin fixative, but washed and shipped in a unique process that is safe and ensures a hassle-free setup, dissection, and disposal.
- Information packets are included in each kit, along with detailed instructions on how to dispose of the specimen.



Cat. No.	Description	Price
S81518	Rabbit with Dissection Tools, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag, Scissors, T-pins × 6, Forceps, Teasing needle, Ruler	64.00/Ea
S81519	Rabbit, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag	73.58/Ea

Rabbits, Bio-Fresh™

Oryctolagus cuniculus.

Excellent for herbivore vs. carnivore comparative studies. Excellent herbivore specimen for study. We recommend dissecting at least one rabbit along with your normal cat study.



Strongest comparisons between the rabbit and cat anatomy exist within:

- Intestinal systems
- Eye position and visual acuity
- Dentition
- Forearm musculature and functionality
- Each rabbit comes with a tag and label identifying the sex

ORDERING INFORMATION:

INJECTION KEY:

Plain: Circulatory system not injected with colors

Single: Arteries injected with red latex

Double: Arteries red, veins blue

Triple: Arteries red, veins blue and hepatic portal veins yellow

Cat. No.	Description	Injection Type	Quantity	Price
S1057S	Skinned Rabbit	Plain	Each	55.00/Pk
S1853S*	Fur Rabbit	Plain	6/CS	60.50/Pk
S1059S	Skinned Rabbit	Double	Each	67.75/Pk
S1851S*	Fur Rabbit	Double	1/Pk.	63.25/Pk
S1060S†	Skinned Rabbit	Triple	Each	70.50/Pk

† Formalin

Rat Anatomy Kit



Comprehensive dissection kit designed for distance learning. Each kit allows 1 to 2 students to perform an in-depth study of the rat through examination of its anatomy and internal organ systems.



- Kit is designed for 1 to 2 students to conduct extensive dissections in the classroom or in their own home.
- Included dissection guide provides in-depth information on the specimen's anatomy
- Optional Dissection Tool Kit is included where indicated, featuring scissors, T-pins, Steel forceps, a Teasing needle and a Plastic ruler.
- Each specimen is preserved in formalin fixative, but washed and shipped in a unique process that is safe and ensures a hassle-free setup, dissection, and disposal.
- Information packets are included in each kit, along with detailed instructions on how to dispose of the specimen.

Cat. No.	Description	Price
S81512	Rat with Dissection Tools, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag, Scissors, T-pins × 6, Forceps, Teasing needle, Ruler	33.00/Ea
S81513	Rat, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag	35.85/Ea

Carolina™ Formalin Rats

For use in lessons on mammalian anatomy. Carolina™ Formalin Rats have well-developed musculature and reproductive system.

- Mature specimen
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde
- Plain: no color injection



Cat. No.	Injection Type	Price
S37659*	Plain	9.25/Ea

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Rats

Rattus norvegicus

Rats are similar in price to fetal pigs, but have adult musculature. If you desire a mammal specimen that is inexpensive, fully muscled and has well-developed genitalia, the rat is the specimen of choice. Pregnant rats are also available.



ORDERING INFORMATION:
INJECTION KEY

Plain: Circulatory system not injected with colors.
Single: Arteries injected with red latex.
Double: Arteries red, veins blue.

Cat. No.	Injection Type	Length	Description	Quantity	Price
Bio-Fresh™ Preservative					
S1825VS*	Plain	7 to 9 in.	Rat	10 Pack	130.00/Pk
S1825S*	Plain	7 to 9 in.	Rat	Each	11.75/Pk
S1827S*	Double	7 to 9 in.	Rat	Each	17.25/Pk
S1825S10*	Plain	7 to 9 in.	Rat	10/Pail	139.00/Pk
Fisher-Free Preservative					
S1179S	Single	7 to 9 in.	Rat	Each	18.00/Pk
S1182S	Double	7 to 9 in.	Pregnant Rat	Each	21.75/Pk

Carolina™ Formalin Preserved Sheep Pluck, Plain

Allows students to explore physiological links between organ systems and identify general structures representative of mammals.



- Heart with aorta and lungs with trachea are shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Odorless fluid designed to minimize unpleasant odor of formaldehyde
- Plain: No color injection

Cat. No.	Description	Price
S28064*	Formalin Preserved Sheep Pluck, Plain	15.90/Ea

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Mammalian Organs

Sheep Brain Kit



Comprehensive dissection kit designed for distance learning. Each kit introduces 1 to 2 students to the mammalian brain via a sheep's brain.



- Kit is designed for 1 to 2 students to conduct extensive dissections in the classroom or in their own home.
- Included dissection guide provides in-depth information on the specimen's anatomy
- Optional Dissection Tool Kit is included where indicated, featuring scissors, T-pins, Steel forceps, a Teasing needle and a Plastic ruler.
- Each specimen is preserved in formalin fixative, but washed and shipped in a unique process that is safe and ensures a hassle-free setup, dissection, and disposal.
- Information packets are included in each kit, along with detailed instructions on how to dispose of the specimen.

Cat. No.	Includes	Price
S81538	Sheep brain with Dissection Tools, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag, Scissors, T-pins × 6, Forceps, Teasing needle, Ruler	37.74/Ea
S81539	Sheep brain, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag	30.19/Ea



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Carolina™ Formalin Preserved Sheep Brain, Dura Mater Removed

Used to study mammalian brain structure.

- Similar to human brain
- Sheep brain with dura mater removed and optic chiasma intact are shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Odorless fluid designed to minimize unpleasant odor of formaldehyde
- Plain: No color injection
- Individually damp-packed in vacuum-sealed bags



Cat. No.	Description	Price
S28069*	Formalin Preserved Sheep Brain, Dura Mater Removed	12.85/Ea

Carolina™ Formalin Preserved Sheep Brain, Dura Mater Intact

Used to study mammalian brain structure.

- Explores general structures representative of mammals
- Connects structure to function
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe™ is an odorless fluid designed to minimize the unpleasant odor of formaldehyde



Cat. No.	Description	Price
S28065*	Formalin Preserved Sheep Brain, Dura Mater Intact	16.15/Ea

Carolina™ Formalin Preserved Sheep Brain, Dura Mater Removed, Hypophysis Intact

Used to study mammalian brain structure.

- Similar to human brain
- Sheep brain with dura mater removed and hypophysis (pituitary gland) intact to aid in brain study, shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Odorless fluid designed to minimize unpleasant odor of formaldehyde
- Plain: No color injection
- Individually damp-packed in vacuum-sealed bags



Cat. No.	Description	Price
S28071*	Formalin Preserved Sheep Brain, Dura Mater Removed, Hypophysis Intact	13.90/Ea

Sheep Heart Kit

Comprehensive dissection kit designed for distance learning. Each kit introduces 1 to 2 students to the anatomy of the mammalian heart through a sheep's heart.



- Kit is designed for 1 to 2 students to conduct extensive dissections in the classroom or in their own home.
- Included dissection guide provides in-depth information on the specimen's anatomy
- Optional Dissection Tool Kit is included where indicated, featuring scissors, T-pins, Steel forceps, a Teasing needle and a Plastic ruler.
- Each specimen is preserved in formalin fixative, but washed and shipped in a unique process that is safe and ensures a hassle-free setup, dissection, and disposal.
- Information packets are included in each kit, along with detailed instructions on how to dispose of the specimen.

Cat. No.	Description	Price
S81535	Sheep heart, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag	22.64/Ea
S81534	Sheep heart with Dissection Tools, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag, Scissors, T-pins × 6, Forceps, Teasing needle, Ruler	30.19/Ea

Carolina™ Formalin Preserved Sheep Heart in Pericardium

Allows students to explore physiological links between organ systems and identify general structures representative of mammals.

- Heart in Pericardium with base of aorta attached is shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Odorless fluid designed to minimize unpleasant odor of formaldehyde
- Plain: No color injection



Cat. No.	Description	Price
S28073	Sheep Heart In Pericardium Formalin Preserved Specimen	11.85/Ea



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Carolina™ Formalin Preserved Sheep Heart, Plain

Allows students to explore physiological links between organ systems and identify general structures representative of mammals



- Heart with base of aorta attached is shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Odorless fluid designed to minimize unpleasant odor of formaldehyde
- Plain: No color injection

Cat. No.	Description	Price
S28067*	Sheep Heart Formalin Preserved Specimen	5.65/Ea

Carolina™ Formalin Preserved Sheep Eyes

Explores eye structures representative of mammals.



- Sold in units of 10 and packaged together in vacuum-sealed bag
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe™ is an odorless fluid designed to minimize the unpleasant odor of formaldehyde
- Pack of 10

Cat. No.	Description	Price
S28068*	Sheep Eyes Preserved Specimen	10.60/Pk

Sheep Eye Kit

Comprehensive dissection kit designed for distance learning. Each kit introduces 1 to 2 students to the basic structure of the eye through a sheep's eye.



- Kit is designed for 1 to 2 students to conduct extensive dissections in the classroom or in their own home.
- Included dissection guide provides in-depth information on the specimen's anatomy
- Optional Dissection Tool Kit is included where indicated, featuring scissors, T-pins, steel forceps, a teasing needle and a plastic ruler.
- Each specimen is preserved in formalin fixative, but washed and shipped in a unique process that is safe and ensures a hassle-free setup, dissection, and disposal.
- Information packets are included in each kit, along with detailed instructions on how to dispose of the specimen.

Cat. No.	Description	Price
S81537	Sheep eyes, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag	11.32/Ea
S81536	Sheep eyes with Dissection Kit, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag, Scissors, T-pins × 6, Forceps, Teasing needle, Ruler	18.87/Ea

Sheep Kidney Kit

Comprehensive dissection kit designed for distance learning. Each kit allows 1 to 2 students to study the mammalian kidney by dissecting a sheep's kidney.



- Kit is designed for 1 to 2 students to conduct extensive dissections in the classroom or in their own home.
- Included dissection guide provides in-depth information on the specimen's anatomy
- Optional Dissection Tool Kit is included where indicated, featuring scissors, T-pins, steel forceps, a teasing needle and a plastic ruler.
- Each specimen is preserved in formalin fixative, but washed and shipped in a unique process that is safe and ensures a hassle-free setup, dissection, and disposal.
- Information packets are included in each kit, along with detailed instructions on how to dispose of the specimen.

Cat. No.	Description	Price
S81548	Sheep kidney with Dissection Kit, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag, Scissors, T-pins × 6, Forceps, Teasing needle, Ruler	28.30/Ea
S81549	Sheep kidney, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag	20.75/Ea

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Carolina™ Formalin Preserved Sheep Kidney

Allows students to explore physiological links between organ systems and identify general structures representative of mammals.

- Kidneys are shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Odorless fluid designed to minimize unpleasant odor of formaldehyde
- Plain: No color injection



Cat. No.	Description	Price
S28066*	Sheep Kidney Formalin Preserved Specimen	4.80/Ea

Carolina™ Formalin Preserved Sheep Organ Set with Manual

Allows students to identify physiological links between organ systems.

- Explores general structures representative of mammals
- Connects structure to function
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe™ is an odorless fluid designed to minimize the unpleasant odor of formaldehyde
- Simple dissection guides are provided for each organ



Cat. No.	Description	Price
S28075*	Sheep Organ Set with Manual	26.00/Ea

Carolina™ Formalin Pig Heart

For use in studying anatomy of cardiovascular system. Carolina™ Formalin Pig Heart is ideal for studying structure and function of heart.

- Four-chambered mammalian heart
- Like human heart, only larger
- Easily trace blood flow through heart
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde



Cat. No.	Description	Price
S37674*	Formalin Pig Heart	8.05/Ea

Pig Heart

Premium quality organs. Choose from our selection of pig organs for your anatomy classes.



ORDERING INFORMATION:

All are premium quality and are packed in vacuum packs, in Fisher Science Education Bio-Fresh™.

Cat. No.	Description	Price
S9254*	Pig Heart with Pericardium	18.75/Ea
S9204S*	Pig Heart without Pericardium	9.10/Ea

Carolina™ Formalin Pig Eyes

Carolina™ Formalin Pig Eyes are for use in exploring the anatomy of mammalian eye. Carolina™ Formalin Pig Eyes are similar to human eye.

- Easy dissection and examination of the mammalian eye as pig eyes are similar to human eye.
- Smaller than cow eyes and have less muscle and fatty tissue attached
- Preserved in formalin
- Shipped 10 per bag
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid which minimizes student and educator exposure to formaldehyde
- Pack of 10



Cat. No.	Description	Price
S72455*	Carolina™ Formalin Pig Eyes	18.25/Pk

Carolina™ Formalin Pig Kidney

Carolina™ Formalin Pig Kidney is for use in enhancing study of urinary system. Similar to human kidney, only larger.

- Mammalian kidney
- For studying structure and function of kidney
- Shipped in Carosafe™ Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde



INJECTION KEY:

- **Double:** Renal artery colored red, renal vein colored blue
- **Triple:** Renal artery colored red, renal vein colored blue, ureter and renal pelvis colored yellow

Cat. No.	Injection Type	Price
S72738	Double	9.55/Ea
S72739	Triple	11.75/Ea



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Pig Kidney

Ideal for showing organ structure. Show kidney structure by dissecting these superior specimens.



INJECTION KEY:

- **Double:** Renal artery colored red, renal vein colored blue
- **Triple:** Renal artery colored red, renal vein colored blue, ureter and renal pelvis colored yellow

Cat. No.	Injection Type	Price
S9208*	Double	10.25/Pk of 1
S9210*	Triple	12.25/Pk of 1

Carolina™ Formalin Cow Heart

For use in studying anatomy of mammalian heart. Carolina™ Formalin Cow Heart is ideal for studying structure and function of heart.



- Four-chambered mammalian heart
- Like human heart, only much larger
- Large size allows students to easily study anatomy
- Easily trace blood flow
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fl

Cat. No.	Description	Price
S37676*	Formalin Cow Heart	39.00/Ea


Preserved Cow Organs

Larger specimens for easier dissection.

- Organs are of excellent quality
- Large size makes them easy for students to dissect
- Vacuum packed in Fisher Science Education Bio-Fresh™



Cat. No.	Description	Quantity	Price
S8203S*	Beef Heart	Each	37.50/Pk
S8207S*	Pregnant Cow Uterus	5/Cs	58.00/Ea
S8202S*	Cow Eye	10 Pack	32.75/Pk
S1722S*	Bull Testicle	Pack of 1	15.75/Pk

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Carolina™ Formalin Cow Eyes

For use in exploring anatomy of mammalian eye. Carolina™ Formalin Cow Eyes are similar to human eye

- Large size allows easy dissection and examination
- Pack of 10
- Preserved in formalin
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of forma



Cat. No.	Description	Price
S37717	Formalin Cow Eyes	26.50/Pk

Carolina™ Formalin Bull Testicle

Carolina™ Formalin Bull Testicle enhances the study of the male reproductive system.

- Procured from an adult bull (2 to 2.5 years old)
- Includes the spermatic cord, epididymis, and vas deferens
- Shipped in Carosafe™ Carolina's proprietary shipping and holding fluid
- Carosafe minimizes student and educator exposure to formaldehyde



Cat. No.	Description	Price
S72735	Formalin Bull Testicle	11.50/Ea

Comparative Mammalian Hearts Kit



Comprehensive dissection kit designed for distance learning. Each kit allows 1 to 2 students to study a variety of different mammalian hearts and observe the subtle variations.

- Kit is designed for 1 to 2 students to conduct extensive dissections in the classroom or in their own home.
- Included dissection guide provides in-depth information on the specimen's anatomy
- Optional Dissection Tool Kit is included where indicated, featuring scissors, T-pins, steel forceps, a teasing needle and a plastic ruler.
- Each specimen is preserved in formalin fixative, but washed and shipped in a unique process that is safe and ensures a hassle-free setup, dissection, and disposal.
- Information packets are included in each kit, along with detailed instructions on how to dispose of the specimen.

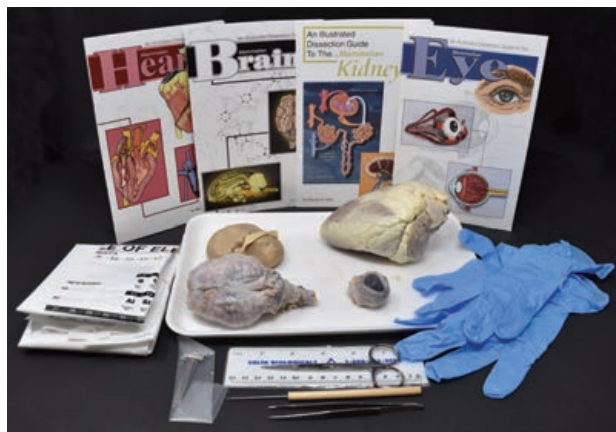


Cat. No.	Description	Price
S81544	Pig heart, Sheep heart, Cow heart, with Dissection Tools. Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag, Scissors, T-pins × 6, Forceps, Teasing needle, Ruler	69.81/Ea
S81545	Pig heart, Sheep heart, Cow heart, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag	62.26/Ea

Comparative Mammalian Organ Set Kit



Comprehensive dissection kit designed for distance learning. Each kit allows 1 to 2 students to study a variety of mammalian organs, including the heart, brain, eye, and kidneys.



- Kit is designed for 1 to 2 students to conduct extensive dissections in the classroom or in their own home.
- Included dissection guide provides in-depth information on the specimen's anatomy
- Optional Dissection Tool Kit is included where indicated, featuring scissors, T-pins, Steel forceps, a teasing needle and a plastic ruler.
- Each specimen is preserved in formalin fixative, but washed and shipped in a unique process that is safe and ensures a hassle-free setup, dissection, and disposal.
- Information packets are included in each kit, along with detailed instructions on how to dispose of the specimen.

Cat. No.	Description	Price
S81547	Sheep brain, Sheep heart, Sheep eye, Sheep kidney, Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag	33.00/Ea
S81546	Sheep brain, Sheep heart, Sheep eye, Sheep kidney, with Dissection Tools. Foam tray, Nitrile gloves × 2, Disposable aprons × 2, Storage bag, Scissors, T-pins × 6, Forceps, Teasing needle, Ruler	40.00/Ea



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Reptiles

Carolina™ Formalin Anoles

Carolina™ Formalin Anoles are useful for exploring reptilian anatomy. Ideal for vertebrate and comparative anatomy classes.

- Member of genus *Anolis*
- Small, representative reptile
- Shipped 10 per jar
- Shipped in Carosafe™ Carolina's proprietary shipping and holding fluid
- Carosafe minimizes student and educator exposure to formaldehyde



Cat. No.	Description	Price
S72734	Formalin Anoles, Jar of 10	31.00/Ea

Carolina™ Formalin Non-Venomous Snake

For use in learning more about reptiles by investigating anatomy of nonvenomous snake. Carolina™ Formalin Non-Venomous Snake is ideal for comparative vertebrate courses.

- Species vary based on availability
- Shipped in Carosafe™, Carolina's proprietary shipping and holding fluid
- Carosafe is odorless fluid designed to minimize unpleasant odor of formaldehyde



Cat. No.	Description	Price
S37648*	Formalin Non-Venomous Snake	25.00/Ea

Toads

Bufo marinus

Dissecting these marine toads can enhance your lesson on amphibians by affording a comparison with preserved frogs. Toads are available plain or injected.

- Compare and contrast skin, fore and hind feet, and tongue with those of frogs
- Plain injection (uncolored)
- Size: 4 to 6 in. (10 to 12.5cm)



Cat. No.	Description	Price
S1713S*	Bufo Marinus (Toad)	7.90/Pk

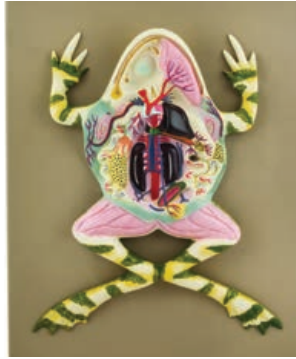
Dissection Supplies

Teaching Aids

Eisco Frog Dissection Model



Demonstrates internal structures of a frog and can be used to enhance or replace physical dissection laboratory activities



- Model representative of a dissected frog
- Numbered internal and external structures
- Mounted on base
- Supplied with English key card
- Ideal for biology classrooms

Cat. No.	Description	Price
S80861	Frog Model	68.75/Ea

Frog Dissection 3-D Model Kit



Assemble and use 3-D models to visualize and investigate key science structures.

- Gain a critical understanding of complex structures & processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to Engage, Explore, Explain, Extend & Evaluate their understanding of key Scientific concepts
- Satisfies NGSS Standards which encourage students to develop & use models to represent structures, systems & processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home



Cat. No.	Description	Price
S81454	Frog Dissection 3D Model Kit	30.00/Ea

Carolina™ Dissection Guides

Student-friendly soft-cover dissection manuals with step-by-step dissection instructions. Include anatomical structures. Fully illustrated to lead students through animal physiology studies.

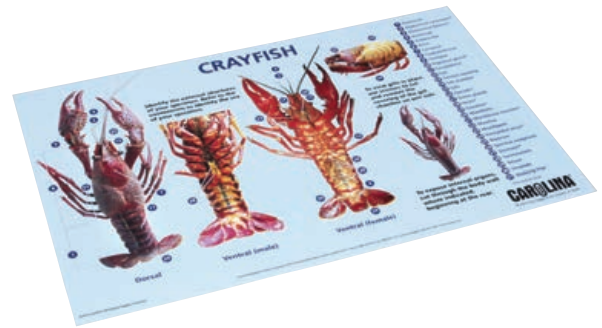
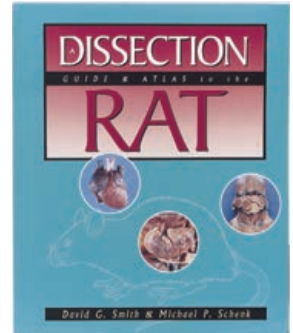


Photo Manual and Dissection Guides

- Spiral Bound
- Full-page black-and-white photographs
- Self quiz after every unit
- Choose from Rabbit, Frog, Shark, Cat and Pig

Rat Dissection Guide and Atlas

- Unbound with perforations for 3-ring binder
- Full color photographs

Cat. No.	Description	Price
S72746	Photo Manual and Dissection Guide of the Shark	20.50/Ea
S72747	Photo Manual and Dissection Guide of the Frog	20.50/Ea
S72748	Rabbit Anatomy and Dissection Guide	32.50/Ea
S72750	Dissection Guide and Atlas to the Rat Book	43.00/Ea
S72753	Photo Manual and Dissection Guide of the Cat	20.50/Ea
S72754	Photo Manual and Dissection Guide of the Fetal Pig	20.50/Ea

Carolina™ Dissection Mats

Allow students to self-guide their own dissection.

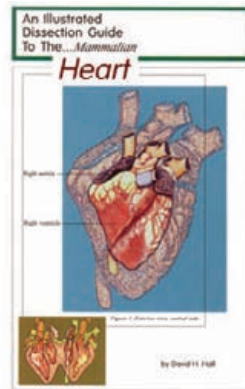
- Double-sided, water-proof vinyl mat
- Reusable; easily wipes clean
- Includes:
 - Simple dissection instructions
 - Detailed, color photographs
 - Labeled external and internal anatomy
 - Defined structures with functions



Mammalian Organ Dissection Guides

Ideal tools for individual student use.

These guides enable students to do dissections independently. They provide clear directions for work on the heart, brain, kidney or eye.



Cat. No.	Description	Min. Grade Level	Price
S72745	Dogfish Shark	7	6.80/Ea
S72742	Mammalian Eye	3	6.80/Ea
S72741	Mammalian Heart	5	6.80/Ea
S72743	Mammalian Kidney	5	6.80/Ea
S72744	Perch	5	6.35/Ea
S72749	Rat	5	6.80/Ea
S72740	Sheep Brain	3	6.80/Ea
S72751	Squid	3	6.80/Ea
S72752	Starfish	3	6.80/Ea

Cat. No.	Description	Price
S4171S	Mammalian Heart Dissection Guide	11.25/Pk

Dissection Tools

DR Instruments Precision Dissecton Kit with Goggles

Ideal for biology classes or field use

- Semi-hard, slotted plastic case
- Autoclavable
- Fine quality tools
- Easy to carry
- Individual sections for each tool
- Avoids breakage of fragile tools
- Safer to use for students and teachers
- Meets ANSI Z87.1-2003 and ANSI + High Impact Standards
- CUL Certified to meet CAN/CSA Z94.3

S72132 Includes:

- Dissecting Mall Probe Chrome Plated (S08106)
- Ruler, 6in (P/No: 30)
- Student dissecting forceps, 4.5in. (S08096 or S08099)
- Dissecting Iris scissors, 4.5in (S08088)
- Dissecting scalpel with screw-lock blade (S07898)
- Glass Dropper (P/No: 39)
- Dissecting Needle Straight plastic handle (P/No: 31)
- Dissecting T-Pins six-pcs (P/No: 42)
- See-thru plastic case with locks – Autoclavable (P/No: 505P)
- Protective adjustable wrap-around eyewear

S72129, S72130, S72131 add:

- Powder-free, latex-free blue nitrile examination gloves
- CFIA and FDA approved for food handling



S72124 thru S72128 add:

- Powder-free, latex-free blue nitrile examination gloves
- CFIA and FDA approved for food handling
- Unisex Lab Coat with higher cotton content for more breathability, moisture absorbency and comfort
- Full-length (42-inch) with 3 patch pockets only, or 2 additional inside patch pockets
- Soft and comfortable fabric in 40% Polyester / 60% Cotton

Cat. No.	Description	Price
S72132	Precision Dissection Kit with Goggles	13.32/Ea
S72129	Small Gloves	21.62/Ea
S72130	Medium Gloves	21.62/Ea
S72131	Large Gloves	21.62/Ea
S72124	With Small Gloves, XS Lab Coat	35.82/Ea
S72125	With Small Gloves; S Lab Coat	35.82/Ea
S72126	With Medium Gloves; Medium Lab Coat	35.82/Ea
S72127	With Large Gloves; Large Lab Coat	35.82/Ea
S72128	With X-Large Gloves; X-Large Lab Coat	35.82/Ea

DR Instruments Zippy™ Dissection Kits

Zippy™ Dissection Kit for students come in a vinyl zipper case. Fine grade dissecting instruments stay secure in the case during transportation.



Contents:

- Ruler 6 inches, plastic (P/No: 30)
- Dissecting student scalpel 1.5 blade, stainless steel (S08112)
- Glass Dropper with rubber bulb (P/No: 39)
- Dissecting student dissecting scissors 4.5 inches (S08089 or S08088)
- Dissecting student forceps, straight, 4.5 inches (S08096)
- Dissecting teasing needle with plastic handle straight (P/No: 31)
- Dissecting teasing needle with plastic handle angular (P/No: 32)
- Black or Maroon Vinyl zipper case (P/No: 50ZP)
- Eyewear: Anti-Scratch UV absorbing polycarbonate lens provide outstanding impact strength and optical clarity for rugged protection
- Provides 99.9- UV protection.
- Great wrap-around style with adjustable temples, providing a secure, comfortable fit.
- Universal Nose Bridge prevents slipping and sliding.
- Small sizes designed to fit a child or small faces are also available.
- Meets ANSI Z87.1-2003 and ANSI + High Impact Standards.
- CUL Certified to meet CAN/CSA Z94.3.
- Nitrile Gloves Powder-Free.
- Blue Textured
- Containing no natural rubber proteins
- 100 - latex-free
- CFIA and FDA approved for food handling
- Excellent comfort and fit for prolonged use
- Provides excellent sensitivity and dexterity

Cat. No.	Description	Price
S72121	With Small Gloves	19.95/Ea
S72122	With Medium Gloves	21.00/Ea
S72123	With Large Gloves	19.95/Ea

DR Instruments Classroom Dissection Set

An ideal, cost-saving classroom dissection set for 20 or 40 students.



- Includes 20 each of the seven dissection tools for a 20-student class
- Can also be used for 40 students working in pairs

ORDERING INFORMATION:

Dimensions: 15 × 13 × 2.25 in. (38 × 33 × 5.7cm)

INCLUDES:

- 20 student scissors, 4.5 in.
- 20 student forceps, 4.5 in.
- 20 scalpel handles
- 100 scalpel blades
- 20 plastic, straight teasing needles
- 20 glass droppers
- 20 plastic, angular teasing needles
- 20 plastic rulers, 6 in.
- 20 packs of six T-Pins (or a bulk box of 300)
- One six-compartment tray for instruments

Cat. No.	Description	Price
S07040	Classroom Dissection Set with Tray	131.56/Ea

DR Instruments Student Dissecting Kits

Complete dissection kits for use in the student lab.

Kit with Black Vinyl Case:

- Dissecting scissors, 4.5 in.
- Dissecting forceps, 4.5 in. chrome-plated
- Dissecting scalpel, chrome-plated
- Plastic ruler, 6 in.
- Two dissecting teasing needles (one angular, one straight) with plastic handles
- Glass dropper with rubber bulb



Kit with See-Through Plastic Case:

- Dissecting scissors, 4.5 in.
- Dissecting forceps, 4.5 in. chrome-plated
- Dissecting scalpel, chrome-plated
- Two dissecting teasing needles (one angular, one straight) with plastic handles
- Plastic ruler, 6 in.

Cat. No.	Description	Price
S06831	Vinyl	9.95/Ea
S06843	Plastic	11.00/Ea

Eisco Dissection Sets

Stainless steel instruments in case

Economy Set:

- 5 in. Scissors
- 4.25 in. Forceps with serrated tips
- 5 in. wooden handled needle
- 5 in. wooden handled curved needle
- Nos.B.P. Handle with Blade 1

Premium Set:

- Scissors
- Forceps
- Seeker
- Scalpel Handle and Blade
- Needle with Wooden Handle

Cat. No.	Description	Price
S14004	Economy 7 Piece Dissecting Set	8.80/Ea
S14005	Premium 7 Piece Dissecting Set	20.50/Ea
S23633	Advanced 12 Piece Dissecting Kit	32.00/Ea



Advanced Set:

- 8 in. x 5 in. x 1 in. leather case
- 4.5 in. Forceps
- Bone Cutter
- 5 in. Forceps
- 4.5 in. Curved Forceps

DR Instruments General Biology Dissecting Kit

For basic general biology dissection.



INCLUDES:

- 5SB- Surgical Scissors one side sharp and one side blunt
- 5SB-CD- Surgical Scissors one side sharp and one side blunt but with curved blades
- Two forceps 5.5 in. (one bent and one straight)
- Two teasing needles (one straight and one bent)
- Scalpel handle no. 3 and no. 4
- Mall probe 6
- One piece blade for scalpel handle no. 3 and no. 4
- Ruler 6 in.
- Double fold vinyl case

Cat. No.	Description	Price
S06841	General Biology Dissecting Kit	11.40/Ea

DR Instruments Microdissection Forceps Set of 5

Microdissection Forceps Set of 5 is ideal for super-fine dissection applications and working under a microscope



- Contains widely used 5 pairs of forceps
- Highly precise and extra fine tips to perform micro-dissection
- Includes 2 curved and 3 straight micro-dissection forceps
- Stainless Steel
- Transparent case

Cat. No.	Description	Price
S72112	Microdissection Forceps Set of 5	20.50/Ea



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DR Instruments Microdissection 4.5 in. Stainless Steel Forceps

Ideal for working under a microscope



- Dissecting forceps is great for micro-dissection work
- Features straight or curved narrow precision points to help access hard-to-reach areas during dissection
- Narrow precision points are excellent for precisely manipulating minuscule specimens under the microscope
- Premium quality stainless steel offers durability and reliability
- Working under the microscope
- Watch makers application
- Splinter removal

DR Instruments Featherweight Entomology Forceps

Ideal for handling larvae or eggs without crushing them or specimens stored in vials



- Bendable
- Set of 2 contains one fine tip and one wide top forceps

Set of 5 (S72111)

Set of 5 are ideal for handling larvae or eggs without crushing them or specimens stored in vials

- 2 featherweight forceps - Spring steel bends into virtually any shape
- 1 narrow tip, 4.5in.
- 1 one broad tip, 4.25in.
- Insect pinning forceps - Surgical stainless steel, 4.5in.
- 2 Micro-dissection forceps
- 1 long shank with very fine points, 4.5in.
- 1 curved with very fine points, 4.5in.

Cat. No.	Description	Price
S72115	Long Narrow Points	3.00/Ea
S72116	Tapered Fine Points	3.00/Ea
S72117	Fine Curved Points	3.00/Ea

Cat. No.	Description	Price
S72113	Narrow Point	6.75/Ea
S72114	Broad Point	6.75/Ea
S72110	Featherweight Entomology Forceps, Set of 2	13.25/Ea
S72111	Entomology Forceps Set of 5	20.50/Ea

Eisco Hand Microtome

Eisco Hand Microtome is a sturdy, user-friendly tool for providing slices of a variety of materials.



- Hand micrometer
- Replicate precise cuts as thin as 0.01 microns
- Top Plate 75 mm diameter
- External milled knob
- Clamping mechanism secures specimen of various sizes in place while cutting
- Height: 5.6 cm

WARRANTY:

1 year limited manufacturer warranty



Cat. No.	Description	Price
S89496	Hand Microtome	61.75/Ea

Eisco Wooden Dissecting Boards

Wooden dissecting boards made from softwood allow pins to be easily placed to hold specimens. The boards feature raised borders on all four sides to contain specimens and supplies.



- High quality dissecting boards with raised border
- Made of softwood to allow pins (not included) to be easily placed to hold specimens
- Perfect for displaying insects or other specimens during dissection or for display

WARRANTY:

1 year limited manufacturer warranty

Cat. No.	Size	Price
S39754	(562 × 392 × 27)mm	51.50/Ea
S39753	(311 × 211 × 27)mm	30.50/Ea
S39752	(262 × 210 × 27)mm	33.00/Ea

United Scientific Large Dissecting Tray With Wax

High quality, affordable dissecting tray with wax



Tray is fabricated from aluminum and includes black wax.

- 13 × 9.5 × 2 in.

Cat. No.	Description	Price
S80769	Large Dissecting Tray with Wax	22.00/Ea

United Scientific Dissecting Pan Black Wax



Dissecting Wax for use with a variety of Dissecting Pans.

- Black wax for dissecting pans



Cat. No.	Description	Price
S81061*	Dissecting Pan Wax	8.05/Ea

Eisco Dissection Tray

Aluminum dissection tray with wax liner.

1 in. thick wax can be melted for easy renewal of pinning surface. 14 × 9 × 2 in. inches approximately. Works great with [™]premium dissection pins



- 1 in. thick wax liner can be easily melted for resurfacing
- High quality aluminum construction
- 35 × 24 × 5cm

Cat. No.	Description	Price
S14000	Dissection Tray	28.25/Ea

Dissecting Instrument Tray

Makes organizing instruments a snap.

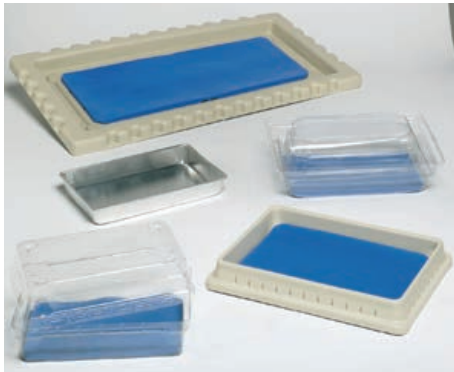
- This handy five-compartment tray accommodates your instruments according to size and type for easy sorting
- In addition, open-face design lets instruments quickly air-dry after cleaning, eliminating mold growth
- Stackable
- The 20-1/2 in. × 11-1/4 in. plastic tray features 2 in. deep wells



Cat. No.	Description	Price
S17429	Dissecting Instrument Tray; White	22.10/Ea

Dissection Pans and Pads

Keep specimens looking fresh between dissection periods.



- High-density polyethylene (HDPE) pans offer tight-sealing lids for durability and easy cleanup
- Each is available with Flex-Pads — odorless vinyl pads that are machine washable and reusable
- Flex-Pads replace wax for faster setup and cleanup

Cat. No.	Description	Price
S17469	Standard Pan with Flex-Pad	14.82/Ea
S17468	Standard Pan with Flex-Pad and Cover	19.24/Ea
S17471	Deluxe Pan with Flex-Pad and Cover	26.80/Ea
S17472	Deluxe Pan with Flex-Pad	21.60/Ea

Large Dissection Tray with Pad

Unbreakable, lightweight trays with pads clean up easily.



Designed for dissecting cats, rabbits, sharks, mink and other animals. Tray is molded of heavy-duty polyethylene for strength, is virtually unbreakable with superb chemical resistance and stacks for storage.

- Nonskid bottom prevents shifting
- Each tray holds a 10 × 23.2 in. (25 × 58cm) Flex-Pad (included) — no wax, no mess
- Dimensions: 16.4 × 30.4 in. (41 × 76cm)
- Shipping weight: 4 lb. (1.8kg)

Cat. No.	Description	Price
S17416	Large Dissection Tray with Pad	86.40/Ea

DR Instruments Student Grade Dissecting Scissors

For general purpose dissection.

- Features two sharp points
- Made of mirror polish finish stainless-steel and brushed finish
- Length: 11.4cm (4.5 in.)



Cat. No.	Description	Price
S08089	Student Grade Dissecting Scissors	3.05/Ea

United Scientific Insect Pins



Insect Pins for holding insect specimens in place.



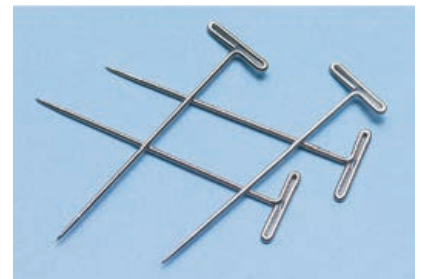
- Steel pins are coated with a corrosion-resistant finish and have a yellow epoxy head
- Pack of 100

Cat. No.	Description	Price
S81080	Insect Pins	5.15/Ea

Eisco T-Pins for Dissecting

Sold in boxes of 100.

- Nickel plated
- 1.5 in.



Cat. No.	Description	Price
S99385	T-pins	5.20/Pk

Eisco Stainless Steel Probe and Seeker

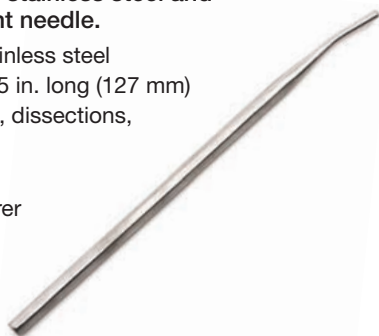


Made from high quality stainless steel and features an angled blunt needle.

- Made from quality stainless steel
- Single piece probe is 5 in. long (127 mm)
- Great for experiments, dissections, and demonstrations

WARRANTY:

1 year limited manufacturer warranty



Cat. No.	Description	Price
S29350	Stainless Steel Probe and Seeker	1.80/Ea

Eisco Stainless Steel Bone Cutter



Features heavy duty construction, a return spring, and locking arm

- Stainless steel superior bone cutter
- Heavy duty construction
- Features return spring and locking arm
- For educational use only
- Not for medical use, this item should never be used on humans or other living specimen of any kind
- 120mm length



Cat. No.	Description	Price
S80805	Stainless Steel Bone Cutter	13.25/Ea

Eisco Scalpels

For educational use only



- Not for medical use, this item should never be used on humans or other living specimen of any kind

Stainless Steel Scalpel (S80806)

- One-piece
- 160mm long



Sterile Disposable Scalpel (S80807)

- Packaged individually
- Pre-sterilized



Cat. No.	Description	Price
S80806	160mm	2.35/Ea
S80807	Plastic	1.35/Ea

Disposable Scalpel

Machine-sharpened, razor-sharp, stainless-steel blade edge that lasts.



- Tapered handle can double as a section lifter, probe, or depressor
- Special safety tab covers the blade to prevent accidents, then snaps off for use
- Shipped in a sealed foil pouch to preserve sterility

Cat. No.	Description	Price
S17800	Disposable Scalpel	4.35/Ea

DR Instruments Scalpel Handle #3 with No. 10 Blades

Comes with a 10-pack of No. 10 blades

- Scalpel handle features black oxide coating for extra corrosion and rust resistance
- Length: 5in.
- Ideal for dissection
- Ideal for wood carving



Cat. No.	Description	Price
S72156	Scalpel Handle #3 with No. 10 Blades	10.00/Ea

Eisco Scalpel Handles

Solid handles provide a good, firm grip during dissection.



- High-quality steel handles
- Slotted to accept blades
- Size #4
- Length 9.05 in. (23cm)

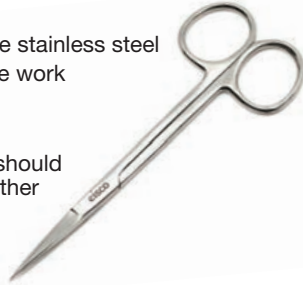
Cat. No.	Description	Price
S95938	Scalpel Handles	8.95/Ea

Eisco Stainless Steel Dissecting Scissors, Fine Point



Made from high quality, durable stainless steel and ideal for use with delicate work

- Dissecting scissors
- Made from high quality, durable stainless steel
- Features fine points for delicate work
- Closed Shanks
- For educational use only
- Not for medical use, this item should never be used on humans or other living specimen of any kind
- 5 in.



Cat. No.	Description	Price
S80799	Fine Point Stainless Steel Dissection Scissors	6.85/Ea

Eisco Stainless Steel Dissecting Scissors, Blunt End



Made from stainless steel with a blunt end and closed shanks

- Dissecting scissors
- Blunt end
- Closed shanks
- Made of stainless steel
- For educational use only
- Not for medical use, this item should never be used on humans or other living specimen of any kind
- 125mm



Cat. No.	Description	Price
S80803	Blunt End Steel Dissecting Scissors	4.05/Ea

DR Instruments Dissection Operating Scissors, Sharp/Sharp

Dissection Operating Scissors, Sharp/Sharp feature black oxide coating



Cat. No.	Description	Price
S72155	Dissection Operating Scissors, Sharp/Sharp	10.25/Ea

Fisher Science Education™ Bio-Fresh™ Concentrate

Keep your specimens moist and preserved.

- Use as a humectant during your dissections to keep your specimens moist, flexible and mold-free
- Use a spray bottle or atomizer to mist your specimens during use and just before sealing them at the end of class
- Dilute per directions on the bottle
- Contains no formaldehyde and is lightly scented
- Volume 128.4 oz. (3797.2mL)



Cat. No.	Description	Price
S6011S	Bio-Fresh Concentrate	49.00/Pk

Plastic Zip Bags for Science Kits

Consumable for use with multiple projects and in science kits.

- Pack of 100



Cat. No.	Quantity	Size	Price
S05254	100 Pack	7 x 8 in., 2mil	10.25/Pk

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 ** California - WARNING: Reproductive Harm www.P65Warnings.ca.gov
 *** California - WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Prepared Individual Microscope Slides

We offer a full array of specimens — from general study to zoology — prepared by skilled technicians using state-of-the-art equipment.

- Made of high-quality materials for clear images
- Prepared in several steps to ensure quality
- Quality control performed after each step

Featured Eisco Microscope Slides

Description	Cat. No.
Miscellaneous	
Colored Threads, Crossed, Whole Mount	S29626
Letter E, Whole Mount	S29618
Bacterial	
Bacteria, Typical, Whole Mount	S29656
Gram Positive, <i>Bacillus</i> sp.	S29621
Gram Positive, <i>Coccus</i> sp.	S29627
Gram Negative, <i>Escherichia coli</i>	S29620
Gram Negative, <i>Bacillus</i> sp., Carbol-fuchsin Stain	S29623
Protists	
<i>Amoeba proteus</i> , Whole Mount	S29648
<i>Euglena viridis</i> , Whole Mount (Protist)	S30182
Paramecium, Whole Mount	S29642
Planaria, Carbon-Fed, Whole Mount	S30294
Botanical	
Mitosis, Plant (Onion), Lateral Section	S29617
Root, <i>Allium</i> sp., Cross Section	S29639
Epidermis, Onion Bulb, Whole Mount	S29657
Dicot and Monocot Leaves, Composite	S30195
Ligustrum Leaf, Cross Section	S30270

Prepared Individual Microscope Slides

Featured Eisco Microscope Slides

Description	Cat. No.
Zoological	
Adipose Tissue Section, H&E Stain, Rabbit	S29635
Adrenal Gland Section, Rabbit	S29665
Areolar Tissue Section, Feline	S29643
Bone Section, Spongy, Porcine	S29619
Bone Section, Ground, Compact, Porcine or Human	S29632
Epithelium, Pseudostratified Columnar Ciliated, H&E Stain, Rabbit	S29625
Epithelium, Simple Cuboidal	S30288
Epithelium, Simple Cuboidal, Rabbit	S29630
Epithelium, Simple Columnar, Canine	S29634
Epithelium, Squamous, Mammal	S30208
Fibrocartilage, White, Rabbit	S29641
Hyaline Cartilage Section, Rat	S29660
Lung Section, Rabbit	S29622
Meiosis, Grasshopper	S30204
Mitosis, Animal and Plant (Ascaris and Onion)	S29649
Motor Nerve Ending Plates, Whole Mount, Rabbit	S29644
Muscle, Cardiac, Longitudinal Section, Mammalian	S30292
Muscle, Smooth, Cross and Longitudinal Sections, Canine	S29636
Pancreas Section, Rat	S29654
Spinal Cord, Cross Section, Rabbit	S29645
Human	
Blood Smear, Wright's Stain	S29616
Gallbladder Section	S30305
Artery and Vein, Medium, Cross Section	S29633
Skeletal Muscle, Longitudinal Section	S29631
Lung Section	S29640
Sperm Smear, Whole Mount	S29659
Testis Section	S29653

Visit fisheredu.com/slides or contact your Fisher Science Education sales representative for a full listing of available slides.

Prepared Slides

Visual Microscopy Learning Kits

Photomicrographs of classical microorganisms, each in a durable, versatile frame.



The large 16 × 20 inch size and high resolution images makes it easy for a student to see cellular or tissue features that are often difficult for the student to understand on a small print or microscope slide. A teacher's guide is provided with each kit, complete with lesson plan options and classroom discussion questions. Frames are durable PVC, versatile because they are ready-to-hang on any hook or used in student hands, and can be written on with a dry erase marker.

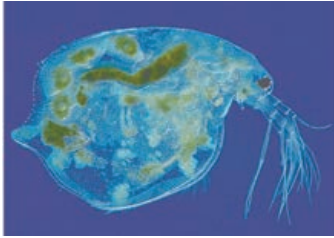
Cat. No.	Description	Price
S39054	Elodea, Cheek, Bacteria, Red Pepper, Banana, and Red Onion	209.00/Ea
S39055	Elodea Visual Microscopy Learning Kit	46.75/Ea
S39056	Cheek Cell Visual Microscopy Learning Kit	46.75/Ea
S39057	Red Pepper Cell Visual Microscopy Learning Kit	46.75/Ea
S39058	Banana Cell Visual Microscopy Learning Kit	46.75/Ea
S39059	Red Onion Cell Visual Microscopy Learning Kit	46.75/Ea
S39061	Simple Squamous Epithelium Visual Microscopy Learning Kit	46.75/Ea
S39062	Simple Cuboidal Epithelium Visual Microscopy Learning Kit	46.75/Ea
S39063	Simple Columnar Epithelium Visual Microscopy Learning Kit	46.75/Ea
S39064	Sratified Squamous Epithelium Visual Microscopy Learning Kit	46.75/Ea
S39065	Pseudostratified Epithelium Visual Microscopy Learning Kit	46.75/Ea
S39066	Transitional Epithelium Visual Microscopy Learning Kit	46.75/Ea
S39067	Muscle Tissue Visual Microscopy Learning Kit	280.00/Ea
S39068	Skeletal Muscle Tissue Visual Microscopy Learning Kit Showing Striations	46.75/Ea
S39069	Skeletal Muscle Tissue Visual Microscopy Learning Kit Showing Both CS (Multinucleate) and LS (Striations)	46.75/Ea
S39070	Skeletal Muscle Tissue and Fascia Visual Microscopy Learning Kit	46.75/Ea
S39071	Muscle Tissue Visual Microscopy Learning Kit Showing Neuromuscular Junctions	46.75/Ea
S39072	Cardiac Muscle Tissue Visual Microscopy Learning Kit Showing Striations	46.75/Ea
S39073	Cardiac Muscle Tissue Visual Microscopy Learning Kit Showing Central Nuclei	46.75/Ea
S39074	Smooth Muscle Tissue Visual Microscopy Learning Kit	46.75/Ea
S39076	Spinal Cord Visual Microscopy Learning Kit	46.75/Ea
S39077	Spinal Gray Matter Visual Microscopy Learning Kit	46.75/Ea
S39078	Spinal White Matter Visual Microscopy Learning Kit	46.75/Ea
S39079	Spinal Central Canal Visual Microscopy Learning Kit	46.75/Ea
S39080	Multipolar Neuron Visual Microscopy Learning Kit	46.75/Ea
S39081	Peripheral Nerve Visual Microscopy Learning Kit	46.75/Ea

Cat. No.	Description	Price
S39082	Teased Peripheral Nerve Visual Microscopy Learning Kit	46.75/Ea
S39083	Dorsal Root Ganglion Visual Microscopy Learning Kit	46.75/Ea
S39084	Cerebral Cortex Visual Microscopy Learning Kit	46.75/Ea
S39086	Neutrophil Visual Microscopy Learning Kit	46.75/Ea
S39087	Lymphocyte Visual Microscopy Learning Kit	46.75/Ea
S39088	Monocyte Visual Microscopy Learning Kit	46.75/Ea
S39089	Eosinophil Visual Microscopy Learning Kit	46.75/Ea
S39090	Basophil Visual Microscopy Learning Kit	46.75/Ea
S39092	Gram Positive Cocci Visual Microscopy Learning Kit	46.75/Ea
S39093	Gram Negative Cocci Visual Microscopy Learning Kit	46.75/Ea
S39094	Gram Positive Bacilli Visual Microscopy Learning Kit	46.75/Ea
S39095	Coccal Tetrads Visual Microscopy Learning Kit	46.75/Ea
S39096	Bacillus Chains Visual Microscopy Learning Kit	46.75/Ea
S39097	Gram Positive Coccobacilli Visual Microscopy Learning Kit	46.75/Ea
S39098	Gram Negative Coccobacilli Visual Microscopy Learning Kit	46.75/Ea
S39099	Gram Negative Bacilli Visual Microscopy Learning Kit	46.75/Ea
S39100	Acid Fast Stained Bacteria Visual Microscopy Learning Kit	46.75/Ea
S39101	Three types of Bacteria Visual Microscopy Learning Kit	46.75/Ea
S39102	Connective Tissue Visual Microscopy Learning Kit	280.00/Ea
S39103	Areolar Connective Tissue Visual Microscopy Learning Kit	46.75/Ea
S39104	Dense Regular Connective Tissue Visual Microscopy Learning Kit	46.75/Ea
S39105	Dense Irregular Connective Tissue Visual Microscopy Learning Kit	46.75/Ea
S39106	Adipose Connective Tissue Visual Microscopy Learning Kit	46.75/Ea
S39107	Blood Visual Microscopy Learning Kit	46.75/Ea
S39108	Bone Visual Microscopy Learning Kit	46.75/Ea
S39109	Elastic Cartilage Visual Microscopy Learning Kit	46.75/Ea
S39110	Hyaline Cartilage Visual Microscopy Learning Kit	46.75/Ea
S39111	Reticular Connective Tissue Visual Microscopy Learning Kit	46.75/Ea

General Biology Slide Set A

Prepared slides of animal and plant structures in whole mount (w.m.), longitudinal section (l.s.) and cross-section (c.s.) preparations.

Set A offers prepared slides of animal and plant structures in whole mount (w.m.), longitudinal section (l.s.) and cross-section (c.s.) preparations.



Zoology

- *Amoeba proteus*, w.m., showing nucleus and pseudopodia
- *Hydra*, w.m., extended, to show foot, body, mouth, and tentacles
- *Lumbricus*, c.s., back of clitellum showing muscular wall, intestine, typhlosole, and nephridia
- *Daphnia* and *Cyclops*, w.m., both specimens on slide
- *Musca domestica*, leg, fly with clinging pads (pulvilli)
- *Apis mellifica*, honeybee anterior and posterior wing
- **Squamous epithelium**, isolated (simple) from human cheek
- **Striated muscle**, l.s., showing nuclei and striations
- **Compact bone**, c.s., specially stained for lamellae, canaliculi
- **Human scalp**, l.s., showing hair follicles, sebaceous glands, epidermis
- **Human blood smear**, stained for red and white corpuscles

Bacteria and Cryptogams

- **Bacteria from mouth, smear**, Gram stained showing bacilli, cocci, spirilli, and spirochaetes
- **Diatoms**, strewn slide of mixed species
- *Spirogyra*, vegetative filaments with spiral chloroplasts.
- *Rhizopus*, w.m., (or *Mucor*), mycelium and sporangia
- **Moss**, w.m., stem with leaves

Botany: Phanerogams Slides

- *Ranunculus*, c.s., buttercup, typical dicot root
- *Zea mays*, c.s., corn, monocot stem with bundles
- *Helianthus*, c.s., sunflower, herbaceous dicot stem
- *Syringa*, c.s., lilac leaf, showing epidermis, palisade parenchyma, spongy parenchyma, and vascular bundles
- *Lilium*, c.s., lily, anthers with pollen grains and pollen sacs
- *Lilium*, c.s., ovary showing arrangement of ovules
- *Allium*, w.m., onion epidermis with cell nuclei
- *Allium*, l.s., onion root tip for mitosis, cell division

Cat. No.	Description	Price
S500	General Biology Slide Set A	113.00/Ea

United Scientific Prepared Microscope Slide Set

Recommended for elementary through high schools.

- Comprehensive selection of prepared microscope slides featuring 24 different subject areas
- The set includes slides depicting *Protozoa*, *Porifera*, *Coelenterata*, *Platyhelminthes*, *Annelida*, *Anthropoda*, *Molluska*, *Echinodermata*, *Pisces*, *Reptila*, *Aves*, *Mammalia*, *Development*, *Bacteria*, *Fungi*, *Algae*, *Pteridophyta*, *Cells*, *Leaves*, *Stem*, *Root*, *Reproductive organs*, *Cell contents*, and *Vascular systems*
- Dimensions: 9 × 8 × 2 in.
- Shipping weight 2.50 lb.



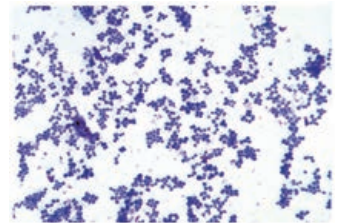
Cat. No.	Description	Price
S90328	Prepared Slide Set of 100	332.00/Ea

Bacteria Basic Slide Set

A variety of basic bacteria slides.

Set of six slides includes:

- *Staphylococcus aureus*, pus organism, smear from culture
- Bacteria from mouth, ideal for demonstrating Gram positive and negative bacteria
- *Streptococcus lactis*, milk souring organism, smear from culture showing short chains
- *Escherichia coli*, colon bacteria, smear
- *Spirillum volutans*, a very large spirillum, smear
- *Bacillus subtilis*, hay bacillus, smear showing bacilli and spores doubly stained



INCLUDES:

Plastic box for 25 microscope slides

Cat. No.	Description	Price
S68789	Bacteria Basic Slide Set	112.00/Ea

Life in a Drop of Water Basic Slide Set

Examine life in a drop of water.

Set of six slides includes:

- *Daphnia*, water flea, w.m.
- *Euglena viridis*, a common green flagellate with eyespot and flagellum, w.m.
- *Spirogyra*, a common alga with spiral chloroplasts, w.m. of vegetative filaments, carefully stained (standard slide for general study)
- *Anabaena*, thread-shaped blue-green algae with heterocysts w.m.
- *Paramecium*, macronuclei and micronuclei stained (typical slide for general study of this common ciliate)
- *Hydra*, extended specimen carefully stained for general body study, w.m. showing all details



INCLUDES:

Plastic box for 25 microscope slides

Cat. No.	Description	Price
S68790	Life in a Drop of Water Basic Slide Set	108.00/Ea

Human Hair Analysis Prepared Slides and Activity

Identify which “suspect” was at the scene of a crime using hair analysis.

Using a microscope, students compare an unlabeled hair sample with five known samples.



- Prepared slide set uses actual human hair
- Full-color overhead transparencies display size and structure of hair (cortex, medulla, cuticle, l.s. and t.s. of human scalp, etc.) using photomicrographs and color designs

INCLUDES:

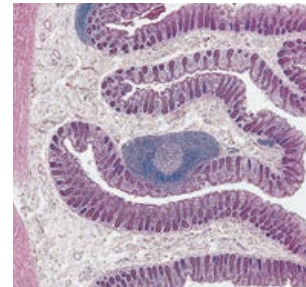
- Teacher’s illustrated guide
- Six slides (natural black, blond, red and brown hairs, plus two artificially blond hairs)
- Three overhead transparencies
- Three sketches and worksheets
- Plastic box for the slides

Cat. No.	Description	Price
S92001	Human Hair Analysis Prepared Slides	107.00/Ea

Histology of Mammalia, Basic Set

Precision slides are mounted by expert microtechnicians.

Basic set of 25 slides are created from fresh, top-quality specimens and expertly fixed, stained and hand-mounted by specialists in the field. Ultrasonically cleaned to eliminate striations and bubbles.



INCLUDES:

- Squamous epithelium, isolated cells
- Fibrous connective tissue
- Adipose tissue, fat stained
- Hyaline cartilage, c.s.
- Compact bone, c.s.
- Striated muscle, l.s.
- Smooth muscle, c.s. and l.s.
- Blood smear, human
- Artery, c.s.
- Vein, c.s.
- Lung, c.s.
- Pancreas with islets of Langerhans, c.s.
- Tongue, c.s.
- Stomach, fundic region, c.s.
- Small intestine, c.s.
- Liver, c.s.
- Kidney, c.s.
- Ovary with developing follicles, c.s.
- Testis with spermatogenesis, c.s.
- Cerebrum, c.s.
- Cerebellum, c.s.
- Spinal cord, c.s.
- Nerve fibers isolated
- Motor nerve cells, smear from spinal cord
- Scalp, human, l.s. of hair follicles

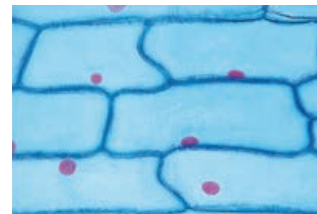
Cat. No.	Description	Price
S2400	Histology of Mammalia, Elementary Set	261.00/Pk

Plant Cells Basic Slide Set

Take a closer look at plant cells.

Set of six slides includes:

- Mitosis, l.s. from *Allium* root tips showing all stages of plant mitosis carefully stained with iron-hematoxyline after Heidenhain
- Epidermal cells of *Allium cepa* (onion), flat mount shows typical plant cells with nuclei, cytoplasm and cell walls
- Sieve plates in top view, t.s. of *Cucurbita* stem showing large structures
- *Spirogyra*, in scalariform conjugation and after the stage of conjugation showing zygotes, w.m.
- Wood cells, fibers and vessels of *Fagus*, beech, macerated and w.m.
- Starch grains, section of tuber of *Solanum tuberosum*, potato showing starch and cork cells



INCLUDES:

Plastic box for 25 microscope slides

Cat. No.	Description	Price
S68787	Plant Cells Basic Slide Set	108.00/Ea



CAREER TECHNICAL EDUCATION
A HEAD START ON STEM CAREERS

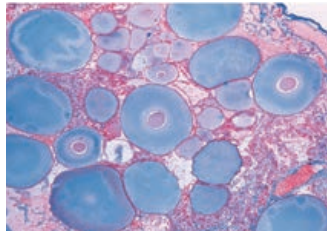
Visit fisheredu.com/nursingcte
for a full list of products to support your nursing, med tech and other CTE Programs.

Animal Cells Basic Slide Set

A variety of basic animal cell slides.

Set of six slides includes:

- Squamous epithelium, isolated cells from human mouth, smear
- Striated (skeletal) muscle I.s.
- Nerve cells and fibers in spinal cord of cat, t.s. routine stained
- Ovary of cat, t.s. for general study, shows primary, secondary and Graafian follicles
- Testis of rat, t.s. showing spermatogenesis
- Giant chromosomes, smear from salivary gland of *Chironomus*, carefully fixed and stained



INCLUDES:

Plastic box for 25 microscope slides

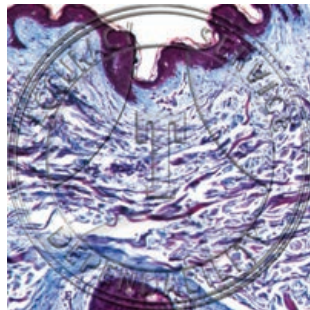
Cat. No.	Description	Price
S68788	Animal Cells Basic Slide Set	109.00/Ea

Histology Slides for Blood Vascular System

Carefully prepared slides will be welcome additions to your classroom.

Also include a wide assortment of mammalian cells from epithelial, blood, muscle, nervous, and respiratory tissues. Also available are slides from other chordates.

- Students can see detail available only from firsthand observation
- Groups of slides are shipped in a slide case for easy storage



Cat. No.	Description	Price
S12009	Histology Slides	8.33/Ea

Whitefish Blastodisc Slides

For studies of *Coregonus* (whitefish), blastodisc; mitotic stages are all clearly depicted.

- Carefully prepared slides will be welcome additions to your classroom
- Students can see detail available only from firsthand observation
- Groups of slides are shipped in a slide case for easy storage



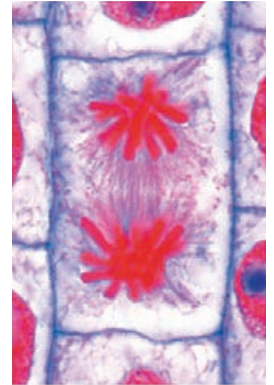
Cat. No.	Description	Price
S11465	Whitefish Blastodisc Slide Showing Mitosis	16.82/Ea

Mitosis and Meiosis Multimedia Packages

Six selected microscope slides with accompanying brochure.

Teacher and Student Packages, set of six slides:

- Allium, root tips, I.s. showing lateral view of all stages of mitosis, iron-hematoxyline
- Whitefish mitosis, I.s. of embryo showing animal mitosis
- Testis of mouse, t.s. showing spermatogenesis in all stages
- Giant chromosomes from salivary gland of *Chironomus*, squash preparation special stained for chromomeres
- Liliun, microspore mother cells, prophase of first division showing meiosis
- Liliun, microspore mother cells, meta- or anaphase of first division, showing mitosis



INCLUDES:

Teacher Package:

- Six microscope slides in plastic box
- Three overhead projector color transparencies
- Six sketch- and worksheets
- Brochure with explanatory text
- Cardboard storage box

Student Package:

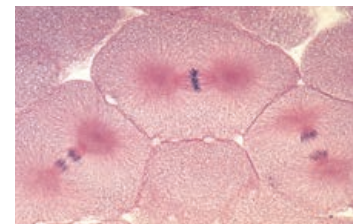
- Six microscope slides in plastic box
- Brochure with explanatory text
- Cardboard storage box

Cat. No.	Description	Price
S90071A	Mitosis and Meiosis Slides	115.00/Ea

Mitosis, Meiosis and Fission Set

Shows IPMAT in slides.

Set of five slides shows the stages of nuclear division, cytokinesis, reduction division and even fission in *Paramecium*.



INCLUDES:

- *Vicia faba* (broad bean) root tip squash, showing all stages of mitosis, stained with Feulgen reaction for DNA. *Vicia* has 12 large chromosomes
- Whitefish mitosis, sections of *Coregonus* blasto-disc, all stages of mitosis shown
- Lily meiosis, first meiotic divisions in cross section of liliun anther
- Grasshopper Testis, I.s. to show spermatogenesis and spermiogenesis; stained with iron-hematoxylin
- *Paramecium caudatum* in fission, w.m. of mass culture including several specimens in fission

Cat. No.	Description	Price
S10044	Mitosis Meiosis and Fission 5/Pk	136.00/Pk

Animal Science

Owl Pellet Kit

Owl Pellet Kit for small learning groups teaches students the concepts of food webs and food chains while identifying the small animals that are prey for the owls.



- Owls have a specialized digestive tract which helps them expel the indigestible parts of their prey in pellet form
- The pellets are heat sterilized and individually wrapped

Kit Includes:

- 5 Owl Pellets
- 10 Wooden Probes
- 5 Forceps
- 5 Plastic Rulers
- 5 Hand Magnifiers
- 20 Nitrile Gloves
- Teacher's Manual and Guide



⚠️ ALERTS:

WARNING: This product can expose you to chemicals including Lead and Lead Compounds, which are known to the State of California to cause cancer and reproductive harm.

Cat. No.	Description	Price
S29558	Size: Small	36.25/Ea

Deluxe Owl Pellet Dissection Lab Activity



Deluxe Owl Pellet Dissection Lab Activity can teach students the concepts of food webs and food chains while identifying the small animals that are prey for the owls.

- Owls have a specialized digestive tract which helps them expel the indigestible parts of their prey in pellet form
- The pellets are heat sterilized and individually wrapped

Kit Includes:

- 15 Owl Pellets
- 30 Dissecting Probes
- 15 Forceps
- 15 Plastic Rulers
- 15 Hand Magnifiers
- 60 Nitrile Gloves



⚠️ ALERTS:

WARNING: This product can expose you to chemicals including Lead and Lead Compounds, which are known to the State of California to cause cancer and reproductive harm.

Cat. No.	Description	Price
S29557	Size: Deluxe	96.00/Ea

Barn Owl Pellets

Students learn the nature of food chains and how to demonstrate the role of predators in the ecosystem.

- Pellets are collected from natural nesting and roosting sites of the barn owl
- Each pellet is unique in size, shape and contents
- Average size of large pellet is 2.5 to 3 in. (6.3 to 7.6cm) long
- Average size of small pellet is less than 1.5 in. long
- Heat sterilized and individually wrapped in foil



Cat. No.	Description	Price
S04621	Large Barn Owl Pellets; 5/Pk	56.50/Pk
S04784	Small Barn Owl Pellets; 20/Pk.	54.00/Ea
S04622	Large Barn Owl Pellet	24.25/Ea
S193661	Barn Owl Pellet; 15/Pk	61.25/Pk
S19366PI	Barn Owl Pellet; 10/Pk	40.25/Pk

Classroom Owl Pellet Kit

Economical and complete for individualized learning.

Kit provides all of the materials necessary to perform an analytical analysis of the owl's habitat, its primary food source and its relationship in the food chain.

ORDERING INFORMATION:

Class size: 30 students.

INCLUDES:

- 15 Heat sterilized, individually wrapped barn owl pellets from the pacific northwest
- Poster depicting the food web in a typical barn owl community
- Poster of the skeleton of the vole (the most common food of barn owls)
- Bone sorting chart
- Complete teaching guide containing background information, suggested teaching strategies, laboratory guide, suggestions for collecting owl pellets and references



Cat. No.	Description	Price
S19366B	Classroom Owl Pellet Kit, for 30	89.00/Ea



* California - WARNING: Cancer www.P65Warnings.ca.gov

** California - WARNING: Reproductive Harm www.P65Warnings.ca.gov

*** California - WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Lab-Aids™ Advanced Owl Pellet Study

Designed for an in-depth study of owls and their prey.

Advanced kit is designed for an in-depth study of owls and their prey. The kit provides extra identification materials such as illustrations of prey, bone sorting chart and 15 keys to mammals commonly eaten by owls. Keys are especially valuable for identifying mammals by the fur found in the pellets. Definite species of voles and mice can be identified by the additional skeletal clues provided.

ORDERING INFORMATION:

Class size: 30 students.

INCLUDES:

- 15 Owl pellets (collected from one region, fumigated, individually wrapped and treated with dichloride)
- 15 Teasing needles
- 15 Specimen identification sorting charts
- 15 Keys to mammals commonly eaten by owls
- 30 Student guides
- 1 Teacher's guide



Cat. No.	Description	Price
S19366	Owl Pellet Study	124.00/Ea

Lab-Aids™ Natural Selection Experiment

Replicate the 'peppered moth' study in the lab, simulate predator-prey relationship, illustrate Darwin's Theory of Natural Selection and industrial melanism and collect data and draw conclusion concerning natural selection and environmental pollution.

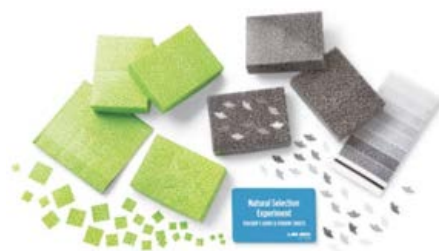
In the 1950s, Oxford University scientist Dr. Bernard Kettlewell studied the changes in England's peppered moth population. Over a hundred year time period, the population of peppered moth shifted from being primarily light-colored moths to dark-colored moths. Dr. Kettlewell reasoned that predatory birds fed on more light-colored moths because they were more easy to spot against the pollution-darkened tree bark. This meant that the dark-colored moths survived in greater numbers, and the genes for their dark coloring were passed down to future generations.

Using Dr. Kettlewell's study as the basis for experimentation, students conduct two simple quantitative lab activities that demonstrate the effects of environmental pollution on nature.

Accommodates unlimited classes, each with 6 groups of 4 students.

INCLUDES:

- 3 black and 3 brown environmental trays
- 3 Bags each of cardboard moths and squares
- 30 Student data charts
- 1 Teacher's guide.



Cat. No.	Description	Price
S19454	Natural Selection Experiment	67.25/Ea

Lab-Aids™ Classifying Animals (Developed by SEPUP)

Construct and compare classification systems, describe characteristics used to define phyla, identify several invertebrate phyla and understand the relationship between kingdom and phylum.

How and why do biologists classify animals? Students will work together to arrange a set of 18 Animal Cards into groups and then adjust their groupings as they learn how scientists classify animals into phyla. By identifying the common features of animals within each phylum, students will learn what kinds of characteristics define the major animal phyla. Each card provides a color photo of an organism as well as relevant information about skeletal, circulatory, and respiratory systems. Students will review the relationship between kingdom and phyla by placing the Animal Cards within a set of Classification Cards that summarize the five major kingdoms. This kit is complete for 32 students and is reusable.

INCLUDES:

- Teacher's guide
- 8 Sets of 18 Animal Cards
- 8 Sets of 5 Classification Cards
- 32 Student guides
- 32 Student data sheets: Biologists Classification

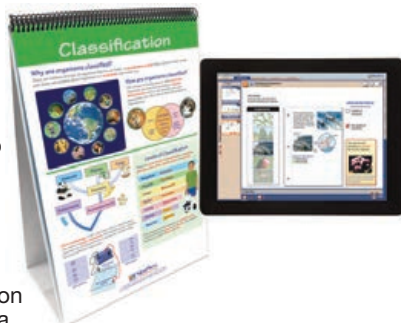


Cat. No.	Description	Price
S90183	Kit: Classifying Animals	77.00/Ea

Six Kingdoms Flip Chart with Online Multimedia Lesson



Combine illuminating graphics and write-on/wipe-off exercises with multimedia lessons to master key life science topics.



- Provides graphical instruction and write-on/wipe-off activities with one-year online access to a corresponding Multimedia Lesson featuring in-depth, interactive coverage of the concept
- The Multimedia Lesson can be accessed by a teacher and ALL of your students anywhere, anytime, on any device – including Chromebooks, tablets, computers and mobile devices.
- Flip Chart Set features 10 Laminated, Double-Sided Charts
- Side 1 features a graphic overview of the topic while Side 2 provides corresponding write-on/wipe-off activities for review and reinforcement
- Includes a Teacher Guide with copymaster activities and review questions
- Spiral-bound and mounted on a sturdy easel for years of use, the Flip Chart sets are ideal for small group instruction, learning centers, independent use or classroom reference
- Also included is one year access to a corresponding online multimedia lesson for a teacher and all their students
- Each lesson features Animated, Narrated Tutorials; Interactive Exercises & Activities; Virtual Lab Investigations; Illustrated, Narrated Glossary; Visual Resource Library; and an Inquiry-Based Student Activity Guide
- Developed under sponsorship of the National Institutes of Health (NIH), the lessons are perfect for individual student instruction on any computer as well as classroom presentation on any Interactive Whiteboard
- Covers: Classification; The Six Kingdoms of Life; Archaeobacteria & Eubacteria; Protista; Fungi; Plant Kingdom; Plants with Seeds; Animal Kingdom; and Vertebrates & Invertebrates

Food Chains & Food Webs Flip Chart with Online Multimedia Lesson



Combine illuminating graphics and write-on/wipe-off exercises with multimedia lessons to master key life science topics.



- Provides graphical instruction and write-on/wipe-off activities with one-year online access to a corresponding Multimedia Lesson featuring in-depth, interactive coverage of the concept
- The Multimedia Lesson can be accessed by a teacher and ALL of your students anywhere, anytime, on any device – including Chromebooks, tablets, computers and mobile devices.
- Flip Chart Set features 10 Laminated, Double-Sided Charts
- Side 1 features a graphic overview of the topic while Side 2 provides corresponding write-on/wipe-off activities for review and reinforcement
- Includes a Teacher Guide with copymaster activities and review questions
- Spiral-bound and mounted on a sturdy easel for years of use, the Flip Chart sets are ideal for small group instruction, learning centers, independent use or classroom reference
- Also included is one year access to a corresponding online multimedia lesson for a teacher and all their students
- Each lesson features Animated, Narrated Tutorials; Interactive Exercises & Activities; Virtual Lab Investigations; Illustrated, Narrated Glossary; Visual Resource Library; and an Inquiry-Based Student Activity Guide
- Developed under sponsorship of the National Institutes of Health (NIH), the lessons are perfect for individual student instruction on any computer as well as classroom presentation on any Interactive Whiteboard
- Covers: Energy Flow; Producers & Photosynthesis; Types of Consumers; Food Chains & Webs; Owl Food Web; Owl Pellets; Energy Pyramid; and Food Web Balance

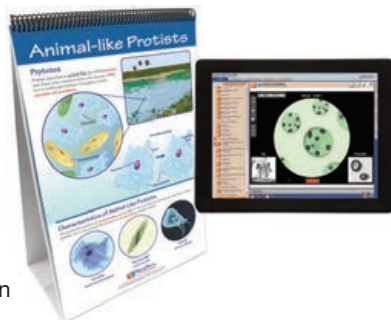
Cat. No.	Description	Price
S81110	Six Kingdoms Flip Chart and Online Multimedia Lesson	50.00/Ea

Cat. No.	Description	Price
S81111	Food Chains/Webs Flip Chart and Online Multimedia Lesson	50.00/Ea

Protists: Pond Microlife Flip Chart with Online Multimedia Lesson



Combine illuminating graphics and write-on/wipe-off exercises with multimedia lessons to master key life science topics.



- Provides graphical instruction and write-on/wipe-off activities with one-year online access to a corresponding Multimedia Lesson featuring in-depth, interactive coverage of the concept
- The Multimedia Lesson can be accessed by a teacher and ALL of your students anywhere, anytime, on any device – including Chromebooks, tablets, computers and mobile devices.
- Flip Chart Set features 10 Laminated, Double-Sided Charts
- Side 1 features a graphic overview of the topic while Side 2 provides corresponding write-on/wipe-off activities for review and reinforcement
- Includes a Teacher Guide with copymaster activities and review questions
- Spiral-bound and mounted on a sturdy easel for years of use, the Flip Chart sets are ideal for small group instruction, learning centers, independent use or classroom reference
- Also included is one year access to a corresponding online multimedia lesson for a teacher and all their students
- Each lesson features Animated, Narrated Tutorials; Interactive Exercises & Activities; Virtual Lab Investigations; Illustrated, Narrated Glossary; Visual Resource Library; and an Inquiry-Based Student Activity Guide
- Developed under sponsorship of the National Institutes of Health (NIH), the lessons are perfect for individual student instruction on any computer as well as classroom presentation on any Interactive Whiteboard
- Covers: What is a Protist?; Plant-Like Protists; Euglena; Volvox; Spirogyra; Animal-Like Protists; Amoeba; Paramecium; and Fungus-Like Protists

Cat. No.	Description	Price
S81105	Pond Microlife Flip Chart and Online Multimedia Lesson	50.00/Ea



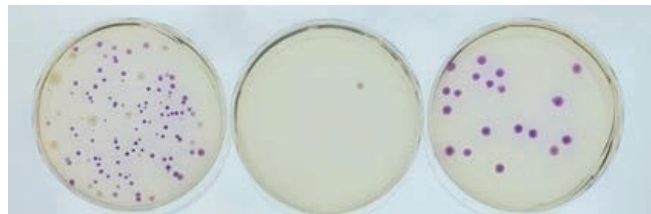
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Battling Bacteria: Ecosystem Dynamics in a Petri Dish Kit



Students create their own microbial ecosystems to investigate the dynamics of competition and abiotic/biotic change on community composition. By using bacteria with short generation times students can observe, test, and collect their own data on key ecological phenomena in a single week!



- Storage: Some Components Require Refrigerator and Freezer Storage
- Complete in 1 Week
- For 10 Lab Groups

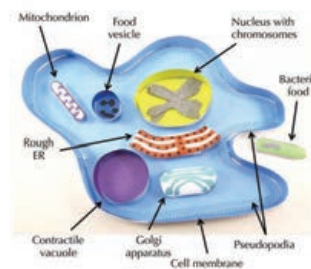
Cat. No.	Description	Price
S27558	Battling Bacteria Ecosystems Kit	119.00/Ea

Amoeba 3-D Model Kit



Assemble and use 3-D models to visualize and investigate key science structures.

- Gain a critical understanding of complex structures & processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to Engage, Explore, Explain, Extend & Evaluate their understanding of key Scientific concepts
- Satisfies NGSS Standards which encourage students to develop & use models to represent structures, systems & processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home



Cat. No.	Description	Price
S81442	Amoeba 3D Model Kit	30.00/Ea

Simple Animal Cell 3-D Model Kit



Assemble and use 3-D models to visualize and investigate key science structures.

- Gain a critical understanding of complex structures & processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to Engage, Explore, Explain, Extend & Evaluate their understanding of key Scientific concepts
- Satisfies NGSS Standards which encourage students to develop & use models to represent structures, systems & processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home



Cat. No.	Description	Price
S81461	Simple Animal Cell	30.00/Ea

8-Piece Cell Mitosis Model



This model has 8 pieces to show the main stages of mitosis (prophase, metaphase, anaphase and telophase).



- Prophase
- Metaphase
- Anaphase
- Telophase
- Each piece is enlarged approximately 10000x and is mounted on a board.
- Each stage can be easily taken off for closer study.

Cat. No.	Description	Price
S80969	Cell Mitosis Model	172.00/Ea

Frog Life Cycle 3-D Model Kit



Assemble and use 3-D models to visualize and investigate key science processes.

- Gain a critical understanding of complex structures & processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to Engage, Explore, Explain, Extend & Evaluate their understanding of key Scientific concepts
- Satisfies NGSS Standards which encourage students to develop & use models to represent structures, systems & processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home

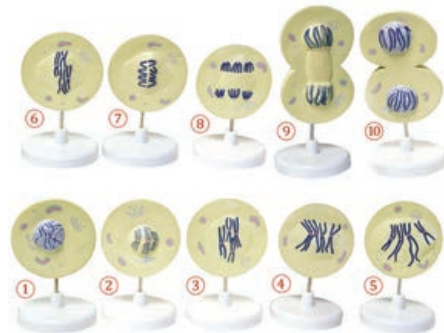


Cat. No.	Description	Price
S81455	Frog Life Cycle 3D Model Kit	30.00/Ea

10-Piece Cell Meiosis Model



This 10 piece model shows the main stages of mammal cell meiosis at the enlargement of approximately 10,000X. The three-dimensional models are painted making the process of meiotic division easy to understand.



- Meiosis (prophase I, metaphase I, anaphase I, telophase I, cytokinesis I, prophase II, metaphase II, telophase II, and cytokinesis II)
- Perfect for students and teachers
- Each 3D model is mounted on its own base and stand for easy handling

Cat. No.	Description	Price
S80989	Mammal Cell Meiosis Model	212.00/Ea

Animal Cell Model

Colorful K-8 teaching model designed specifically for hands-on use.

- Five inquiry-based activities cover cell structure and function, osmosis, eukaryotes, bacteria and more
- Suitable for elementary through middle school
- Resilient, nontoxic EVA-foam construction withstands years of active investigation
- Dimensions: 11L x 11W x 14.5 in.H (27.9 x 27.9 x 36.8cm)



INCLUDES:

- Detailed teacher's guide
- Reproducible worksheets
- Reference information
- Cross-curricular extensions
- Assessments

Cat. No.	Description	Price
S94386	Animal Cell Model	87.40/Ea

Eisco Wooden Insect Storage Box



Suits all insect collectors with a perforated chamber and soft pad lining for pinning and displaying specimens.

- Glass front insect storage box
- Made from polished wood
- Includes 2 polished brass clasps for secure closure
- Bottom lined with thick pad for pinning insects
- Glazed inside with white art paper
- Double walled, perforated fumigation chamber
- Length 44.5cm



WARRANTY:

1 year limited manufacturer warranty

Cat. No.	Description	Price
S89502	Wooden Insect Storage Box	93.00/Ea

Insect X-Ray and Picture Cards

Insect X-Ray and Picture Cards allow users to match up the insect x-rays to the double sided, sturdy picture cards to see straight through the insects



Discover what it means to be an entomologist, the branch of zoology that studies insects with this set of X-Rays and picture cards.

- Learn the parts of an insect - head, thorax and abdomen
- See how very different creatures can have very similar structures
- See straight through the insects, from the top, through the inside, to the bottom
- Teacher guide details each insect
- Includes 36 double sided picture cards and 36 x-rays, 4 x 6 in. (10 x 15 cm)

Cat. No.	Description	Price
S40798	Insect X-Ray and Picture Cards	22.25/Ea

Plant/Animal Cell, Human Heart/Brain Cross-Section Models

Colorful foam model comes apart to create a cross section view for hands-on classroom demonstrations.

- Included activity guides provide activity ideas, facts and detailed information on the function of the structure being modeled
- Key structures are labeled on one half of the model with the other half left unlabeled for testing purposes



Cat. No.	Description	Price
S90819	Human Brain Cross Section Model	21.50/Ea
S90816	Animal Cell Cross Section Model	23.50/Ea
S90817	Plant Cell Cross Section Model	23.50/Ea

Botany

Eisco Typical Flower Standing Dissectable Model

Hand painted, break resistant plastic typical flower model is a great aid for teaching angiosperm pollination and fertilization

- Model of a greatly enlarged, idealized Typical Flower
- Mounted on a base
- Numbered with English Key Card

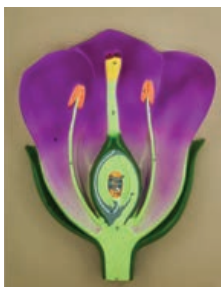


Cat. No.	Description	Price
S80809	Typical Flower Dissectable Model	81.00/Ea

Eisco Typical Flower Model

Depicts internal structures, including reproductive parts of a typical flower

- Typical flower model for biological study
- Three dimensional details depict internal structures
- Numbered with key card for identification of features
- Mounted on a base for display
- Hand painted
- Perfect for any classroom



Cat. No.	Description	Price
S80810	2.5 in.	56.75/Ea

Dicotyledon Stem Model

Modeled after a sunflower, this one year dicot stem gives anatomy in cross, radial and tangential sections. Shows epidermis, cork layer, phloem region, cambium, xylem region, pith and vital structures.

- 45X enlarged model of one year old sunflower dicot stem
- Cross, radial, and tangential sections display epidermis, cork layer, phloem region, cambium, xylem region, pith and vital structures in great detail
- Designed and built to be as accurate as possible
- Perfect for students and teachers
- Made of plastic and includes diagram



Cat. No.	Description	Price
S80990	Dicotyledon Stem Model	55.75/Ea

Eisco Typical Flower Model

Detachable model of flower for botanical study.

- Ovary with single interior ovule
- Fixed on base
- Numbered with English Key Card
- L x W x H: 42 x 22 x 33cm (16.5 x 8.6 x 13 in.)



Cat. No.	Description	Price
S15626	Typical Flower Model	73.25/Ea

Dicot Flower Model

Allows students to easily study the floral components and reproductive functions of flowers.

Enlarged to approximately eight times life size.

- Can be disassembled to reveal the pollen grains inside and show the process of pollination
- Structures are numbered on the flower model and correspond to an identification key
- Dimensions: 17.7 x 15.7 x 12 in. (45 x 39.9 x 30.5cm)



Cat. No.	Description	Price
S06699	Dicot Flower Model	147.00/Ea

3B Scientific™ Plant Cell Model

Magnified 500,000 to 1,000,000 times.

- Two-piece model presents the structure of a typical plant cell with cytoplasm and cell organelles as viewed from an electron microscope
- All important organelles are raised and displayed in color
- Dimensions: 7.8 x 5.5 x 12.6 in. (20 x 14 x 32cm)

Displays:

- Cell wall
- Cell membrane
- Nucleus
- Smooth endoplasmic reticulum
- Rough endoplasmic reticulum
- Ribosomes
- Chloroplasts
- Mitochondria
- Dictyosomes/Golgi apparatus



Cat. No.	Description	Price
S96171	Two-piece Plant Model	409.00/Ea

Plant/Animal Cell, Human Heart/Brain Cross-Section Models

Colorful foam model comes apart to create a cross section view for hands-on classroom demonstrations.

- Included activity guides provide activity ideas, facts and detailed information on the function of the structure being modeled
- Key structures are labeled on one half of the model with the other half left unlabeled for testing purposes



Cat. No.	Description	Price
S90819	Human Brain Cross Section Model	21.50/Ea
S90816	Animal Cell Cross Section Model	23.50/Ea
S90817	Plant Cell Cross Section Model	23.50/Ea

Simple Plant Cell 3-D Model Kit



Assemble and use 3-D models to visualize and investigate key science structures. Perfect for use in the classroom, lab or at home

- Gain a critical understanding of complex structures & processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to Engage, Explore, Explain, Extend & Evaluate their understanding of key Scientific concepts
- Satisfies NGSS Standards which encourage students to develop & use models to represent structures, systems & processes, then provide explanations, make predictions or investigate solutions



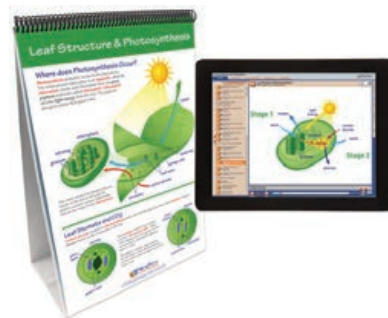
Cat. No.	Description	Price
S81463	Simple Plant Cell	30.00/Ea

Photosynthesis & Cellular Respiration Flip Chart with Online Multimedia Lesson



Combine illuminating graphics and write-on/wipe-off exercises with multimedia lessons to master key life science topics.

- Provides graphical instruction and write-on/wipe-off activities with one-year online access to a corresponding Multimedia Lesson featuring in-depth, interactive coverage of the concept
- The Multimedia Lesson can be accessed by a teacher and ALL of your students anywhere, anytime, on any device – including Chromebooks, tablets, computers and mobile devices.



- Flip Chart Set features 10 Laminated, Double-Sided Charts
- Side 1 features a graphic overview of the topic while Side 2 provides corresponding write-on/wipe-off activities for review and reinforcement
- Includes a Teacher Guide with copymaster activities and review questions
- Spiral-bound and mounted on a sturdy easel for years of use, the Flip Chart sets are ideal for small group instruction, learning centers, independent use or classroom reference
- Also included is one year access to a corresponding online multimedia lesson for a teacher and all their students
- Each lesson features Animated, Narrated Tutorials; Interactive Exercises & Activities; Virtual Lab Investigations; Illustrated, Narrated Glossary; Visual Resource Library; and an Inquiry-Based Student Activity Guide
- Developed under sponsorship of the National Institutes of Health (NIH), the lessons are perfect for individual student instruction on any computer as well as classroom presentation on any Interactive Whiteboard
- Covers: Cell Energy; Leaf Structure & Photosynthesis; Process of Photosynthesis; Effects of Light & CO₂ on Photosynthesis; Cellular Respiration; Connection between Photosynthesis & Respiration; and Fermentation

Cat. No.	Description	Price
S81107	Photosynthesis & Cellular Respiration Flip Chart and Online Multimedia Lesson	50.00/Ea

Photosynthesis Light Reactions 3-D Model Kit



Assemble and use 3-D models to visualize and investigate key science processes.



- Gain a critical understanding of complex structures & processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to Engage, Explore, Explain, Extend & Evaluate their understanding of key Scientific concepts
- Satisfies NGSS Standards which encourage students to develop & use models to represent structures, systems & processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home

Cat. No.	Description	Price
S81460	Photosynthesis Light Reactions	30.00/Ea

Chloroplasts 3-D Model Kit



Assemble and use 3-D models to visualize and investigate key science structures.



- Gain a critical understanding of complex structures & processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to Engage, Explore, Explain, Extend & Evaluate their understanding of key Scientific concepts
- Satisfies NGSS Standards which encourage students to develop & use models to represent structures, systems & processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home

Cat. No.	Description	Price
S81445	Chloroplasts	30.00/Ea

Advanced Placement Laboratory Kit 4: Plant Pigment Chromatography and Photosynthesis

Experiment demonstrates light-dependent reactions of photosynthesis by colorimetric assay, and helps students to gain an understanding of the biochemical processes by which they work.



Reformulated solvent systems are less flammable and less toxic than commonly used ether and acetone systems.

- Gain an understanding of the theory and applications of chromatography
- Use thin layer chromatography to separate plant pigments carotene, xanthophyll, and chlorophyll
- Perform an assay of the light reactions of photosynthesis using intact chloroplasts and the dye DCIP

ORDERING INFORMATION:

Class size: 10 laboratory groups (40 students).

INCLUDES:

- Instructions
- Chloroplast extraction
- Dilution buffers
- Reducing reagent
- DCIP
- Standard pigments
- Chromatography solvent
- Sarkosyl
- Thin layer cellulose chromatography plate
- Microliter capillary pipets
- Tubes
- Transfer pipets.

REQUIRES:

- Visible wavelength spectrophotometer (see S42669ND)
- Pencils
- Clinical benchtop centrifuge
- Metric rulers
- Test tube racks
- Flood light or small portable lamps (60w is sufficient)
- Pipet pumps or bulbs
- Distilled water
- Test tubes, 10mL (13 x 100mm)
- Beakers, 100mL
- Pipets, 1 and 5mL
- Ice
- Cheesecloth
- 95-100% isopropanol† (2-propanol)
- Aluminum foil
- Fresh spinach

Cat. No.	Description	Price
S11284	AP Lab Kit 4: Plant Pigment Chromatography and Photosynthesis	140.00/Ea

† Rubbing alcohol will not work, as it is only 70% isopropanol.

Lab-Aids™ Photosynthesis and Cellular Respiration (Developed by SEPUP)

Make accurate interpretations, inferences, and conclusions with this kit.

Part One is an investigation into the reactions of photosynthesis and cellular respiration using a series of images and statements. Students then discuss these processes relative to ecosystems and the carbon cycle.

In Part Two, students read about the details of photosynthesis and cellular respiration, including light and dark reactions, glycolysis, the Krebs cycle, and the electron transport chain. All equipment is reusable and will provide years of use.

INCLUDES:

- Teacher's guide
- 28 Student guides
- 6 Sets of 8 photosynthesis and cellular respiration cards
- 6 Sets of 12 photosynthesis and cellular respiration strips
- 6 Sets of 2 category cards
- 1 Transparency 1 visual aid



Cat. No.	Description	Price
S02447	Kit: Photosynthesis and Cellular Respiration	97.00/Ea

Kemtec™ Plant Cancer Kit

Allows students to investigate cancer in the laboratory.

- Students safely explore aspects of cancerous cell growth with this self-contained kit.
- A fresh carrot is required but not provided.
- Experiments enable students to visualize the differences between normal cells and cancerous cells, describe similarities and differences between animal and plant cancers, identify cancer cells, identify a plant cancer or gall, and research current theories on the causes of cancer.
- Students grow their own sunflower plants; then induce crown gall by inoculating plant tissue with *Agrobacterium tumefaciens* (reply card item ships upon request and only in Continental US) which is required for inducing the cancerous growth.
- Students then do a Koch's Postulates Experiment: Inducing Cancer in Carrot Tissue.
- Allow 3 to 4 weeks if growing plants prior to inoculation and 3 to 4 weeks for tumor growth.
- Experiment requires approximately one hour of lab time.
- Designed for 24 students.
- Recommended in conjunction with Koch's Postulate Experiment so as to use the same *Agrobacterium tumefaciens* culture or sub-culturing for later use.
- Kit requires a free USDA permit for handling *Agrobacterium tumefaciens* to be obtained before the organism can be shipped.
- Meets National Standards for Grade Levels 9 to 14



Cat. No.	Description	Price
S27529	Plant Cancer Kit	201.00/Ea

Kemtec™ Plant Cloning II Kit

Enables users to generate a plant by cloning its tissue in an exciting and challenging experience introducing students to biotechnology and sterile technique.

- Students will establish a shoot multiplication culture using an African violet model, use sterile technique to develop African violet cloned cultures and induce the development of multiple shoots (clones) from the leaf tissue.
- Resulting plantlets may be started in soil.
- The complete process takes approximately three months.
- No hood or incubator is required.
- Includes an instruction manual and a flash drive with a presentation including images of plant material at various stages of the experiment.
- Perishable reply card items ship separately upon request and only in the continental US.
- Meets National Standards for Grade Levels 9 to 14.



Cat. No.	Description	Price
S27530	Plant Cloning II Kit	263.00/Ea

Dose Makes Poison: Testing Environmental Impacts of Pollution Experiment Kit

Allows scientists to determine the effects of given substance on living organisms.

- Biological assay for environmental pollution
- Inquiry-based lab students plan and perform plant bioassay
- Determines environmental hazard of common point and non-point source pollutants
- Results analyzed using averages, standard deviations, TC50 calculations, integrating STEM



Eisco Plant Mitosis Model



Made up of a set of 10 models that each depict a separate phase of plant mitosis

- Individual models each depict a different phase of plant mitotic division
- Numbered with English key card
- Perfect for any classroom



Cat. No.	Description	Price
S42876	Dose Makes Poison: Testing Environmental Impacts of Pollution Experiment Kit	146.00/Ea

Cat. No.	Description	Price
S80811	Plant Mitosis Model	88.00/Ea

Custom-Built Kits for Your Classroom

The Fisher Science Education team is proud to bring you the convenience of custom educational kits for elementary- to college-level instruction.

- 1 Outline the Project
- 2 Review Your Curriculum
- 3 Develop a Plan
- 4 Align on Production
- 5 Place Your Order
- 6 Await Delivery



Visit fisheredu.com/customkitting to learn more.



Biology

Cell Biology

Eisco Plant and Animal Cell Comparison Model

Set of two models to compare plant and animal cells.



- Enables teaching of plant and animal cell structures
- Numbered with English Key Card
- Mounted on stand
- Size: 24L x 17W x 18cm H (9.5 x 6.7 x 7 in.)

Cat. No.	Description	Price
S15637	Plant and Animal Cell Comparison Model	112.00/Ea

3-D Cell Biology Model Kits



Assemble and use 3-D models to visualize and investigate key science structures.



- Gain a critical understanding of complex structures & processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to Engage, Explore, Explain, Extend & Evaluate their understanding of key Scientific concepts
- Satisfies NGSS Standards which encourage students to develop & use models to represent structures, systems & processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home

3B Scientific™ Animal Cell Model

Shows form and structure of a typical animal cell as viewed from an electron microscope.

- All important organelles are raised and displayed in color
- Dimensions: 8.25 x 4.33 x 12.25 in. (21 x 11 x 31cm)

Displays:

- Nucleus
- Mitochondrion
- Smooth endoplasmic reticulum (ER)
- Rough endoplasmic reticulum (ER)
- Basal membrane
- Collagen fibers
- Golgi apparatus
- Microvilli
- Lysosome



Cat. No.	Description	Price
S96170	Animal Cell Model	409.00/Ea

Cat. No.	Description	Price
S81443	Cell Membranes	30.00/Ea
S81444	Cell Nucleus	30.00/Ea
S81464	Stem Cells	30.00/Ea

Mitosis and Meiosis: Cell Growth & Division Flip Chart with Online Multimedia Lessons

Combine illuminating graphics and write-on/wipe-off exercises with multimedia lessons to master key life science topics.

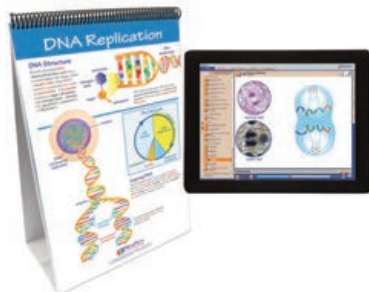
- Provides graphical instruction and write-on/wipe-off activities with one-year online access to a corresponding Multimedia Lesson featuring in-depth, interactive coverage of the concept
- The Multimedia Lesson can be accessed by a teacher and ALL of your students anywhere, anytime, on any device – including Chromebooks, tablets, computers and mobile devices.
- Flip Chart Set features 10 Laminated, Double-Sided Charts
- Side 1 features a graphic overview of the topic while Side 2 provides corresponding write-on/wipe-off activities for review and reinforcement
- Includes a Teacher Guide with copymaster activities and review questions
- Spiral-bound and mounted on a sturdy easel for years of use, the Flip Chart sets are ideal for small group instruction, learning centers, independent use or classroom reference
- Also included is one year access to a corresponding online multimedia lesson for a teacher and all their students
- Each lesson features Animated, Narrated Tutorials; Interactive Exercises & Activities; Virtual Lab Investigations; Illustrated, Narrated Glossary; Visual Resource Library; and an Inquiry-Based Student Activity Guide
- Developed under sponsorship of the National Institutes of Health (NIH), the lessons are perfect for individual student instruction on any computer as well as classroom presentation on any Interactive Whiteboard

Mitosis Model

- Comparing Plant & Animal Cells; Cell Cycle; Chromosomes; DNA Replication; Mitosis in Plant & Animal Cells; Comparing Mitosis & Cytokinesis; and Mitosis & Mutations

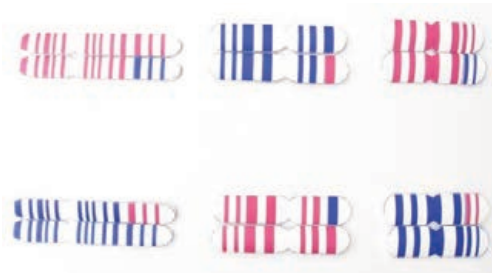
Meiosis Model

- Sexual Reproduction; DNA Replication; Stages of Meiosis I & II; Crossing Over; and Comparing Mitosis & Meiosis



Mitosis & Meiosis 3-D Model Kit

Assemble and use 3-D models to visualize and investigate key science processes.



- Gain a critical understanding of complex structures & processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to Engage, Explore, Explain, Extend & Evaluate their understanding of key Scientific concepts
- Satisfies NGSS Standards which encourage students to develop & use models to represent structures, systems & processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home

Cat. No.	Description	Price
S81457	Mitosis and Meiosis	30.00/Ea

Eisco Animal Cell Division - Mitosis Model

Displays different stages in mitotic cell division.

- Set of 10 models
- Depicts resting cell, early prophase, prophase, late prophase, metaphase, anaphase, late anaphase, telophase and daughter cells
- Size: approx. 50L x 45W x 4cm (19.6 x 17.7 x 1.5 in.)



Cat. No.	Description	Price
S15641	Animal Cell Division Mitosis Model	149.00/Ea

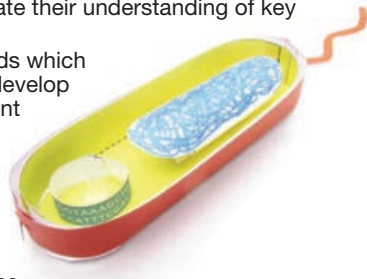
Cat. No.	Description	Price
S81103	Mitosis	50.00/Ea
S81106	Meiosis	50.00/Ea

Simple Cell 3-D Model Kits



Assemble and use 3-D models to visualize and investigate key science structures.

- Gain a critical understanding of complex structures & processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to Engage, Explore, Explain, Extend & Evaluate their understanding of key Scientific concepts
- Satisfies NGSS Standards which encourage students to develop & use models to represent structures, systems & processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home



Cat. No.	Description	Price
S81462	Simple Bacterial Cell	30.00/Ea
S81453	Euglena	30.00/Ea
S81459	Paramecium	30.00/Ea

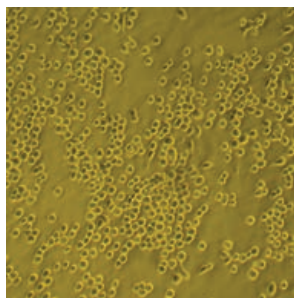
Eucaryotic Cell Biology Experiment Kit

Familiarizes students with simple, robust cell culture system.

- Used in life science research, biotechnology laboratories
- Provides student with skill set desired in both academic research and industry
- Contains live materials

Time requirements:

- Basic cell culture techniques - 30 minutes
- Examination of Insect Cell Cultures - 30 minutes
- Maintenance of Insect Cell Cultures - 1 hour
- Cell Viability using Trypan Blue - 30 minutes
- Differential staining using Giemsa stain - Overnight

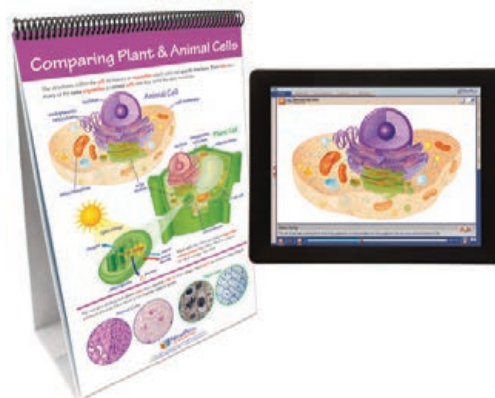


Cat. No.	Description	Price
S42877	Eucaryotic Cell Biology Experiment Kit	233.00/Ea

Cells Flip Chart with Online Multimedia Lesson



Combine illuminating graphics and write-on/wipe-off exercises with multimedia lessons to master key life science topics.



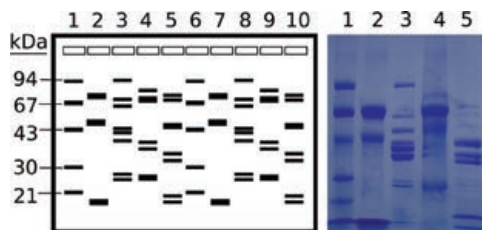
- Provides graphical instruction and write-on/wipe-off activities with one-year online access to a corresponding Multimedia Lesson featuring in-depth, interactive coverage of the concept
- The Multimedia Lesson can be accessed by a teacher and ALL of your students anywhere, anytime, on any device – including Chromebooks, tablets, computers and mobile devices.
- Flip Chart Set features 10 Laminated, Double-Sided Charts
- Side 1 features a graphic overview of the topic while Side 2 provides corresponding write-on/wipe-off activities for review and reinforcement
- Includes a Teacher Guide with copymaster activities and review questions
- Spiral-bound and mounted on a sturdy easel for years of use, the Flip Chart sets are ideal for small group instruction, learning centers, independent use or classroom reference
- Also included is one year access to a corresponding online multimedia lesson for a teacher and all their students
- Each lesson features Animated, Narrated Tutorials; Interactive Exercises & Activities; Virtual Lab Investigations; Illustrated, Narrated Glossary; Visual Resource Library; and an Inquiry-Based Student Activity Guide
- Developed under sponsorship of the National Institutes of Health (NIH), the lessons are perfect for individual student instruction on any computer as well as classroom presentation on any Interactive Whiteboard
- Covers: Discovering Cells; Animal & Plant Cell Organelles; Cell Energy; Photosynthesis; Comparing Plant & Animal Cells; Organization of Cells; Specialized Cells; and Single-Cell Organisms

Cat. No.	Description	Price
S81102	Cells Flip Chart/Online Multimedia Lesson	50.00/Ea

Cell Types in the Brain Kit

The brain is an incredibly complex organ that uses a network of cells working together to function and perform everyday activities. This experiment helps students to examine the differences between cell types in the brain based on their profiles of proteins.

- Storage: Some components require freezer storage
- For 6 Groups Sharing 3 Polyacrylamide Gels



Cat. No.	Description	Price
S27561	Cell Types in the Brain Kit	79.00/Ea

Lab-Aids™ Osmosis and Diffusion

Observe diffusion through a membrane in two directions at the same time, observe selective permeability of a membrane and understand how osmosis and diffusion relate to cellular life processes on a cellular level.

This kit helps students observe first hand the characteristics of a differentially permeable membrane. Some substances will pass through the membrane and some won't. Some will actually pass through the membrane in both directions simultaneously. Simple color changes help students visualize this biological-physiological phenomenon.

INCLUDES:

- 36 Glucose testing strips
- 12 Membranes, semi-permeable
- 12 Cups, plastic
- 3 Droppers
- 3 Lugol's solution, bottle
- 2 Glucose solution, bottle
- 2 Liquid Starch, bottle
- 1 Teacher's Guide with SDS
- 28 Student Guides



ORDERING INFORMATION:

Accommodates 6 groups of 4 students

Cat. No.	Description	Price
S19359	Osmosis and Diffusion	120.00/Ea

Osmosis & Diffusion 3-D Model Kit

Assemble and use 3-D models to visualize and investigate key science processes.

- Gain a critical understanding of complex structures & processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to Engage, Explore, Explain, Extend & Evaluate their understanding of key Scientific concepts
- Satisfies NGSS Standards which encourage students to develop & use models to represent structures, systems & processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home

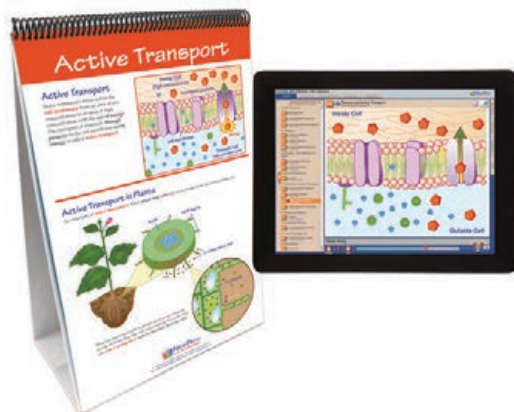


Cat. No.	Description	Price
S81458	Osmosis & Diffusion	30.00/Ea

Osmosis & Diffusion Flip Chart with Online Multimedia Lesson



Combine illuminating graphics and write-on/wipe-off exercises with multimedia lessons to master key life science topics.



- Provides graphical instruction and write-on/wipe-off activities with one-year online access to a corresponding Multimedia Lesson featuring in-depth, interactive coverage of the concept
- The Multimedia Lesson can be accessed by a teacher and ALL of your students anywhere, anytime, on any device – including Chromebooks, tablets, computers and mobile devices.
- Flip Chart Set features 10 Laminated, Double-Sided Charts
- Side 1 features a graphic overview of the topic while Side 2 provides corresponding write-on/wipe-off activities for review and reinforcement
- Includes a Teacher Guide with copymaster activities and review questions
- Spiral-bound and mounted on a sturdy easel for years of use, the Flip Chart sets are ideal for small group instruction, learning centers, independent use or classroom reference
- Also included is one year access to a corresponding online multimedia lesson for a teacher and all their students
- Each lesson features Animated, Narrated Tutorials; Interactive Exercises & Activities; Virtual Lab Investigations; Illustrated, Narrated Glossary; Visual Resource Library; and an Inquiry-Based Student Activity Guide
- Developed under sponsorship of the National Institutes of Health (NIH), the lessons are perfect for individual student instruction on any computer as well as classroom presentation on any Interactive Whiteboard
- Covers: Comparing Plant & Animal Cells; Cell Membrane and Cell Transport; Diffusion; Diffusion in the Lungs; Osmosis: The Diffusion of Water; Passive Transport; Active Transport; and Osmosis in Plant & Animal Cells

Cat. No.	Description	Price
S81104	Osmosis & Diffusion Flip Chart and Online Multimedia Lesson	50.00/Ea

Fisher Science Education™ Gram Stain Kit

Bacteria stain set for Gram negative and positive results.

- Uses 1% Gentian violet solution, Gram's iodine solution, 95% ethanol (decolorizer), and 1% safranin solution
- Gram's iodine solution packaged in PVC bottle
- Maximum performance over 12-month shelf life ensured
- This product is an Educational Grade Chemical — no C of A is available
- 4 × 250mL bottles



INCLUDES:

- Three large-volume pipets
- Instructions

Cat. No.	Description	Price
S25344	Gram Stain Kit	34.25/Ea

Eisco Polypropylene Petri Dishes with Covers

Eisco Polypropylene Petri Dishes with Covers are reusable and can be repeatedly autoclaved.

- Made from high quality polypropylene (PP)
- Includes dish and cover
- Reusable
- Autoclavable at 121°C



Cat. No.	Outside Diameter	Quantity	Price
S40602	50 mm	1	1.05/Ea
S29421	50 mm	12/Pk.	5.50/Pk
S40603	75 mm	1	0.95/Ea
S29422	75 mm	12/Pk.	8.40/Pk
S40604	100 mm	1	2.10/Ea
S29423	100 mm	12/Pk.	10.75/Pk
S40605	130 mm	1	2.10/Ea
S40606	153 mm	1	4.15/Ea

fisherbrand Plastic Petri Dishes

Ideal plastic Petri dishes for lab use.

- Dimensions: 100 × 15mm
- Sterile
- Polystyrene
- Stacked
- 500 per case



Cat. No.	Description	Price
S33580A	Plastic Petri Dishes	138.00/Cs

fisherbrand Petri Dishes with Clear Lid

Feature a new and improved design and packaging

- Made from medical-grade, gamma sterilized polystyrene
- Ventilation ribs on the lid allow for air circulation
- 60 x 15mm
- Manufactured in a state-of-the-art cleanroom facility
- Packaging features a UPS™ shippable outer carton to prevent damage
- Product sleeve is made from a strong polymer to prevent bag holes
- Dishes packed in easy-open product sleeve with tear notch
- Product sleeves are vacuum sealed to prevent scuffing and other damage to dishes
- Complete manufacturing traceability with use of both the lot number on the case label and the lot ID number on the product sleeve
- Case of 500



Cat. No.	Description	Price
S35839	Petri Dishes with Clear Lids	243.00/Cs

Micro and Molecular Biology

Coronavirus 3-D Model Kits



Assemble and use 3-D models to visualize and investigate key science processes.



- Gain a critical understanding of complex structures & processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to Engage, Explore, Explain, Extend & Evaluate their understanding of key Scientific concepts
- Satisfies NGSS Standards which encourage students to develop & use models to represent structures, systems & processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home

Cat. No.	Description	Price
S81447	Coronavirus Antibody Test	30.00/Ea
S81467	Coronavirus COVID-19 Structure	30.00/Ea
S81468	Coronavirus DNA Test	30.00/Ea
S81448	Coronavirus Cycle	30.00/Ea

Antibodies 3-D Model Kit



Assemble and use 3-D models to visualize and investigate key science structures.

- Gain a critical understanding of complex structures & processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to Engage, Explore, Explain, Extend & Evaluate their understanding of key Scientific concepts
- Satisfies NGSS Standards which encourage students to develop & use models to represent structures, systems & processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home



Cat. No.	Description	Price
S81469	Antibodies 3D Model Kit	30.00/Ea



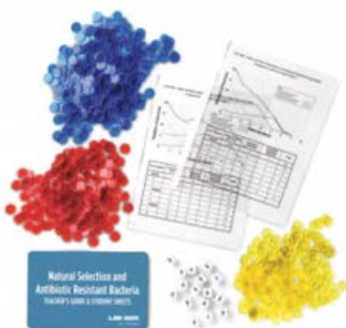
YOUR STEM PROGRAM
MAKE IT AMAZING!

[fisheredu.com/STEM](https://www.fisheredu.com/STEM): Your source for products, professional development, resources and everything STEM.

Lab-Aids™ Natural Selection and Antibiotic-Resistant Bacteria

In this activity, students model the effects of antibiotics on the population of disease-causing bacteria during an infection.

Why it is important to take an antibiotic as prescribed? Students model the effects of antibiotics on the population of disease-causing bacteria during an infection. During the simulation, some groups complete the full course of antibiotics, while others miss doses. They then graph populations of more-resistant and less-resistant bacteria. Students observe the selection of more-resistant bacteria that can take place if antibiotic treatment is intermittent or discontinued prematurely. Through this activity, students learn why it's important to take 'the full course' of antibiotics. Accommodates unlimited classes, each with 16 groups of 2 students. Includes Teacher guide, student sheets and assessment questions.



Cat. No.	Description	Price
S94501	Natural Selection and Antibiotic-Resistant Bacteria Kit	93.00/Ea

Antibiotic Effects Kit

Show the antibiotic inhibition of microorganisms with this kit.

Use this kit to present an effective teaching unit on the effects of antibiotics on microorganisms. The kit utilizes antibiotic discs to produce zones of inhibition (clear areas of no growth), which are measured to determine the susceptibility of the microorganisms to the different antibiotics.



INCLUDES:

- Cultures of *Enterobacter aerogenes*, *Bacillus cereus* and *Sarcina lutea*
- 24 Petri dishes and Redigel™ to prepare culture dishes
- Six sterile swabs to facilitate the sterile transfer of the bacteria to dishes
- 24 discs of each of the following antibiotics: tetracycline, chloramphenicol and penicillin
- Teacher's guide
- Student worksheet, which may be reproduced for classroom use

Cat. No.	Description	Price
S70120	Antibiotic Effects Kit	77.25/Ea

How Clean is Clean? Testing the Effectiveness of Antibacterial Cleaners Kit



Students will do two experiments to explore the properties of bacterial growth. They will determine a bacteria's ability to resist the antibiotic ampicillin, then test different household cleaners to determine which one is the most effective at preventing bacterial growth.

- Storage: Some components require refrigerator storage upon receipt
- Complete in 2 lab periods (24 hours)
- For 10 groups

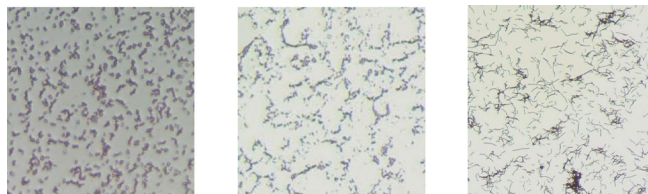


Cat. No.	Description	Price
S27556	Testing the Effectiveness of Antibacterial Cleaners Kit	89.00/Ea

Identification and Characterization of Bacteria Kit



Gram staining is a quick, effective, and medically relevant identification test that is essential for bacterial classification. Students will use this staining technique to examine the size, shape, arrangement, and gram status (+/-) of *Escherichia coli*, *Bacillus subtilis*, and *Micrococcus luteus*.



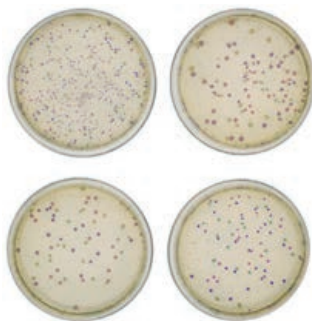
- Storage: Some Components Require Refrigerator Storage Upon Receipt
- Completion Time: 90 minutes
- For 8 Groups

Cat. No.	Description	Price
S27555	Identification and Characterization of Bacterial Kit	99.00/Ea

Rainbow Transformation Kit

Allows for the selection, propagation, expression and purification of a gene.

Students transform bacteria with a new set of rainbow color plasmids that transform non-pathogenic bacterial cells into bright, colorful cells



- For 10 Lab Groups
- Set Up and Plating - 50 minutes
- Overnight incubation
- Transformation efficiency - 15 minutes

INCLUDES:

Instructions, BactoBeads™, plasmid DNA, IPTG, ampicillin, transformation solution, ReadyPour™ Agar, Luria broth, petri dishes, sterile pipets, loops and microtubes

REQUIRES:

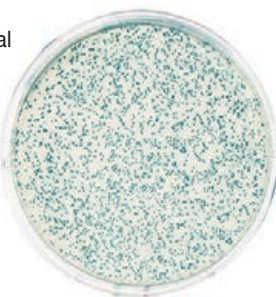
Waterbath, 37°C incubation oven, microwave or hot plate

Cat. No.	Description	Price
S21224	Rainbow Transformation Kit	157.00/Ea

Transformation of *E. coli* with pGAL™ (Blue Colony)

Presence of IPTG is not required.

In this experiment, your students will develop an understanding of bacterial transformation by plasmid DNA by introducing an opportunity to observe an acquired phenotypic trait of the transformed bacterial cells. The presence of blue bacterial colonies visually demonstrates the expression of a specific gene for the Lac+ phenotype.



ORDERING INFORMATION:

Contains materials for 10 transformations.

INCLUDES:

BactoBeads, plasmid DNA, buffers, reagents and antibiotic; ReadyPour™ Luria Broth agar; Luria Broth media for recovery; 40 Petri plates; 20 plastic microtipped transfer pipets; Three wrapped 10mL pipets and 25 wrapped 1mL pipets; 20 inoculating loops; 40 microtest tubes with attached lids; Complete instructions, background information and study questions

REQUIRES:

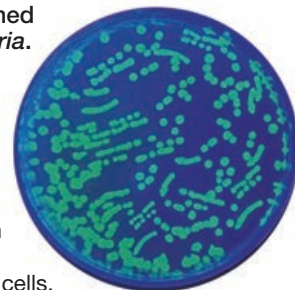
Automatic micropipet (5 to 50µL) or 25µL fixed-volume micropipet and tips; Two water baths; Incubation oven; Pipet pumps or bulbs; Ice; Bunsen burner, hotplate or microwave oven; Hot gloves

Cat. No.	Description	Price
S11293	Transformation Kit; Organism: <i>E. coli</i> ; Plasmid: pGAL (blue colony)	157.00/Ea

Transformation of *E. coli* with Green Fluorescent Protein (GFP)

GFP gene was isolated and cloned from the jellyfish *Aequorea victoria*.

In this experiment, students will explore the biological process of bacterial transformation using *E. coli* and plasmid DNA. At the end of the activity, students will have experience observing and analyzing acquired traits (ampicillin resistance and fluorescence) as exhibited by transformed bacterial cells.



ORDERING INFORMATION:

Contains materials for 10 transformations and controls.

INCLUDES:

instructions, BactoBeads™ *E. coli* GFP Host, supercoiled pFluoroGreen™ plasmid DNA, ampicillin, IPTG, CaCl₂, Growth Additive, ReadyPour™ Luria Broth Agar (sterile), Luria Broth Medium for Recovery (sterile), petri plates (small), petri plates (large), plastic microtipped transfer pipets, wrapped 10 ml pipet (sterile), toothpicks (sterile), inoculating loops (sterile), microcentrifuge tubes

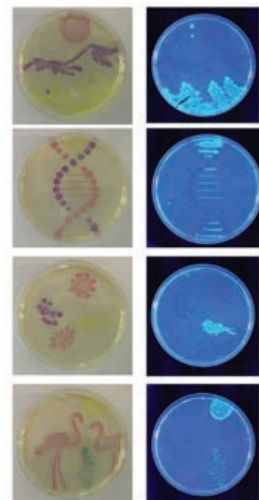
Cat. No.	Description	Price
S68654	Transformation of <i>E. coli</i>	130.00/Ea

Living Art: Adding STEAM to Transformations Kit



Students will harness the color producing power of transformed bacteria to create works of living microbial art. This kit is intended for use in conjunction with Transformation Kits 222, 223, 224 or 303.

- Storage: Some Components Require Refrigerator and Freezer Storage Upon Receipt
- Time Required: 60 Minutes (plus two incubations)
- For 25 Students

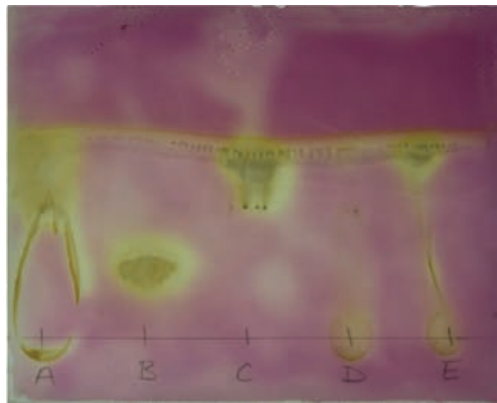


Cat. No.	Description	Price
S27566	Adding STEAM to Transformations Kit	65.00/Ea

Scents and Sense-ability Kit



Allows students to understand that olfactory receptors respond to smells and transmit them as signals to the brain. Furthermore, students will also be able to understand the principles of thin layer chromatography and how they apply to the separation of olfactory compounds.



- Storage: Room Temperature
- For 10 Lab Groups

Cat. No.	Description	Price
S27560	Scents and Senseability Kit	95.00/Ea

Micropipetting Basics

Pipetting is a critical skill necessary for the accuracy that is essential in scientific experiments.



- Demonstrate the use of micropipets
- Prepare various dye mixtures and deliver mixture to the pipet card™
- Practice new skills by loading samples onto an agarose gel

INCLUDES:

- Colored dye samples
- Instructions
- Pipet card
- Study questions

Cat. No.	Description	Price
S68632	Micropipet Basics	67.00/Ea

fisherbrand Nichrome/ Aluminum Inoculating Loops

Fisherbrand Nichrome/Aluminum Inoculating Loops consist of a nichrome wire loop mounted to an aluminum handle. Inoculating loops are used to introduce microorganisms into a culture medium.



- 25 gauge with 3mm loop (I.D.)
- Ideal for selecting, inoculating, or transferring microbiological samples
- Loops slide along agar surfaces without cutting or tearing material/sample
- Cools rapidly after sterilization
- Handle length: 8in. (203mm)
- Passivated
- Autoclavable up to 135°C; Can be sterilized by Eto/gamma radiation
- Latex-free
- Produced under ISO 9002, GMP, cGMP guidelines
- Pack of 12

Cat. No.	Description	Price
S35887	Nichrome/Aluminum Inoculating Loops	89.00/Pk

Carolina™ 100 × 15mm Prepared Media Plates

An industry standard for nearly a century, this excellent prepared media supports a wide range of microorganisms

Each plate has an imprinted lot number and expiration date to ensure quality and viability for you and your students.

- Supports a broad spectrum of microorganisms
- Comes in a convenient 10-pack of sterile, ready-to-use plates



Note: C of A unavailable for this item

INCLUDES: Carolina™ Prepared Media booklet

⚠ ALERTS:

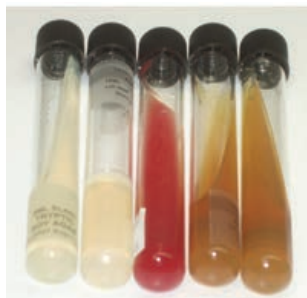
Because this item is a living or perishable material a specified delivery date is required. Orders must be placed through Customer Service at 1-800-766-7000

Cat. No.	Description	Price
S21800ND	Nutrient Agar	23.75/Pk
S21801ND	Tryptic Soy Agar	24.25/Pk
S21807ND	MacConkey Agar	24.00/Pk
S21802ND	Mannitol Salt Agar	27.00/Pk
S42831	Eosin Methylene Blue Agar	26.50/Ea
S42825	Mueller Hinton Agar	23.28/Ea

Prepared Culture Media in Tubes

Ready-to-use media prepared in disposable borosilicate glass tubes.

- Tubes measure 16mm O.D. x 125mm long and have black plastic screw caps
- Each tube is labeled with product name, expiration date and lot number
- Refrigerate until ready to use



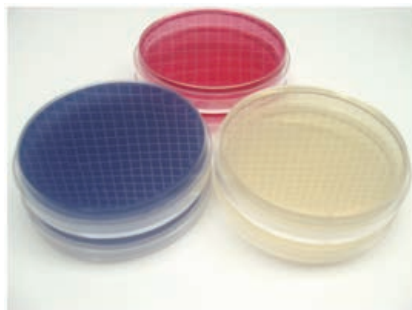
ORDERING INFORMATION:

Sold in pack of 20 tubes.

Cat. No.	Description	Price
S716932A	Nutrient Agar, Tube	89.00/Pk

Prepared Culture Media in Plates

Labeled with product name, expiration date and lot number.



- Cultivation of non-fastidious microorganisms, according to the method described by the American Public Health Association
- Sterile plates are ready for immediate use
- Supplied in disposable plastic Petri dishes, 100mm O.D. x 15mm deep
- Packed in clear, heat-sealed cellophane bags
- Pack of 10

Cat. No.	Description	Price
S716931A	Prepared Culture Media in Plates	33.00/Pk

Sterile Prepared Media Tubes



High quality microbiological media at an economical price



- Sterile Prepared Media Tubes will bring quality back to the lab market, as we are manufacturing our tubes with the classic black rubber lined phenolic caps to ensure a sterile seal
- Case of 100

Cat. No.	Description	Price
S29580	Sabouraud Dextrose Broth; Quantity: 9 mL	124.00/Ea
S29574	Nutrient Broth; Quantity: 9 mL	143.00/Ea
S29576	Tryptic Soy Broth; Quantity: 9 mL	141.00/Ea
S29579	Sabouraud Dextrose Agar; Quantity: 6 mL	126.00/Ea
S29577	Luria Agar (Miller's); Quantity: 6 mL	129.00/Ea
S29578	Luria Broth (Miller's); Quantity: 9 mL	129.00/Ea

Sterile Prepared Agar and Broth



High quality microbiological media at an economical price

- Sterile Prepared Agar and Broth will bring quality back to the lab market
- Case of 24



Cat. No.	Description	Volume	Case of	Price
S29565	EMB Agar (Levine)	200 mL	24	106.00/Ea
S29566	EMB Agar (Levine)	125 mL	24	104.00/Ea
S29564	Tryptic Soy Agar	125 mL	24	104.00/Ea
S29563	Tryptic Soy Agar	200 mL	24	118.00/Ea
S29567	Luria Agar (Miller's)	200 mL	24	127.00/Ea
S29568	Luria Agar (Miller's)	125 mL	24	121.00/Ea
S29569	Sabouraud Dextrose Agar	200 mL	24	114.00/Ea
S29570	Sabouraud Dextrose Agar	125 mL	24	112.00/Ea
S29573	Nutrient Agar Tube - Slant	6 mL	100	148.00/Ea
S29575	Tryptic Soy Agar Tube - Slant	6 mL	100	147.00/Ea
S29562	Nutrient Agar	125 mL	24	79.00/Ea
S29561	Nutrient Agar	200 mL	24	99.00/Ea
S29572	MacConkey Agar	125 mL	24	104.00/Ea
S29571	MacCondey Agar	200 mL	24	106.00/Ea



Log in to your account
on fisheredu.com
to see your discounts.

Dehydrated Culture Media and Ingredients

Essential agents for preparing culture media.

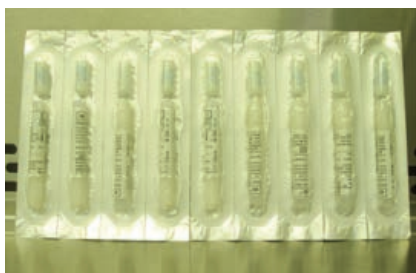
Successful bacteriological work begins with high-quality media. Agar, a solidifying agent, is an essential component of many media. So when you are planning your class projects, be sure to order ample supplies of agar, too.



Cat. No.	Description	Quantity	Price
S70210A	Agar	100g	28.75/Ea
S70213A	Agar	500g	138.00/Ea
S71614A	Nutrient Agar	454g	136.00/Ea
S71613A	Nutrient Agar	113g	55.50/Ea
S71646A	Nutrient Agar 1.5%	454g	85.00/Ea
S71648A	Nutrient Broth	454g	140.00/Ea
S71659A	Potato Dextrose Agar	454g	118.00/Ea
S71666A	Sabouraud Dextrose Agar	454g	52.75/Ea
S71656A	Plate Count Agar	454g	95.00/Ea
S71627A	Tryptic Soy Agar	454g	119.00/Ea

Antibiotic Sensitivity Discs

Study antibiotic sensitivity and resistance.



- Vials are sealed for storage
- Designed to dispense one disc at a time, without contact or spoilage of remaining discs

ORDERING INFORMATION:

Vials and bottles are supplied in packs of 50.

Cat. No.	Description	Price
S70158A	Penicillin G	21.25/Pk
S70152A	Chloramphenicol	21.25/Pk
S70151A	Ampicillin	21.25/Pk
S70150A	Blank	17.25/Pk
S70159A	Streptomycin	21.25/Pk

Iodine Solution, 0.9%

Approximately 0.0156M solution in H₂O

- 100mL



Cat. No.	Description	Price
S28451	0.9% Iodine Solution	10.25/Ea

Student Bacteria Experiment Kit

Allows groups of students to culture their own bacteria without an incubator.



Melt the media in a microwave, pour it into media plates and test for growth in four popular experiments.

Experiments:

- Test-common use items such as bathroom handles, doorknobs and water fountains
- Clean hand/dirty hand test: How many bacteria does soap eliminate?
- Clean mouth/dirty mouth test: How many bacteria does mouthwash eliminate?
- Which mouth contains more bacteria: a human's or a dog's?

ORDERING INFORMATION:

Class size: Four groups of five to six students.

INCLUDES:

- Two 200mL bottles of prepared nutrient agar
- 20 radiation-sterilized Petri dishes
- 10 sterile swabs
- Four lab instruction sheets

Cat. No.	Description	Price
S68775	Bacteria Experiment Kit	51.00/Ea

Biochemistry

3B Scientific™ Biochemistry Molecular Model Kit

Compact/semi-space-filling models feature the “mushroom style” hydrogen atom-link part.



257 atom parts cover a wide range of biochemical structures including amino acids, monosaccharides, fatty acids, glycerol, steroids, purines, pyrimidines, peptides, disaccharides, nucleosides, nucleotides, coenzymes, proteins, polysaccharides and nucleic acids.

INCLUDES:

- 68 carbon, black (42 tetrahedral, 24 trigonal, two linear)
- 34 nitrogen, blue (12 tetrahedral, 12 trigonal, 10 angular)
- 40 oxygen, red (20 angular, 10 linear, 10 one-hole)
- 10 hydrogen, white (linear)
- Two sulfur, yellow (angular)
- Six phosphorus, purple (tetrahedral)
- Two metal connectors, gray (one tetrahedral, one octahedral)
- 100 hydrogen links, white
- 150 NV-links, clear
- 10 V-links, gray
- Two link remover tools, cream

Cat. No.	Description	Price
S68292	Molecular Model Kit	118.00/Ea



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Kemtec™ Biochemistry Kits

Kemtec™ Biochemistry Kits provide teachers with the resources to develop course material, and experiments at varying complexities



Biochemistry I:

- Introduce students to the chemistry of living things
- Features five classic biochemistry experiments
- Use Benedict's reagent, Biuret, Sudan IV, Iodine to test for proteins, carbohydrates, and lipids
- Use pepsin to digest protein
- Test the activity of salivary amylase (both in vitro and in vivo)
- Develop a technique for determining ascorbic acid concentration to use to evaluate Vitamin C levels
- Determine of the alkalinity of acidity of foods
- Ideal for students in biology, general science, nutritional science, or biochemistry

Biochemistry II:

- Includes an entire course worth of classic biochemistry experiments presented at a more in-depth level than Biochemistry I
- Learn how to measure the pH of foods, saliva, and soil
- Learn classic detection methods for sugars, starch, fat, and protein
- Pepsin digestion of protein
- Amino acid detection using ninhydrin
- Explore the effects of varying conditions on salivary amylase activity
- Model how digestion works
- Determine ascorbic acid concentration
- Explore dyes and plant pigments using chromatography with different solvents
- Ideal for supporting higher level biology, nutritional science, advanced general science, or biochemistry courses

Cat. No.	Description	Price
S30816	Biochemistry I	233.00/Ea
S30817	Biochemistry II	259.00/Ea

Small Group Learning: Chromatography Of Amino Acids

In this activity, students will perform a paper chromatography experiment on three known amino acids, and then use their results to identify the components of an unknown amino acid mixture.

Amino acids are the fundamental building blocks of all proteins. Often times scientists need to identify the amino acid contained in a protein. One such method for separating and identifying individual amino acids is paper chromatography.

- Kit contains enough material for 5 groups
- Teacher's Manual and Student Study Guide copymasters are included
- Aligned to the Next Generation Science Standards (NGSS)
- Disciplinary Core Ideas: PS1A; PS1B
- Performance Expectations: MS-PS1-2; HS-PS1-3
- Cross Cutting Concepts: Patterns
- Engineering Practices: Planning and Carrying Out Investigations; Analyzing and Interpreting Data; Scientific Knowledge is Based on Empirical Evidence



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⚠️ ALERTS:

WARNING: This product can expose you to chemicals including Methanol/Methyl isobutyl ketone, which is known to the State of California to cause cancer, birth defects and reproductive harm. For more information go to www.P65Warnings.ca.gov.

Cat. No.	Description	Price
S40730	Chromatography of Amino Acids Small Group Learning Activity	19.25/Ea

Enzymes 3-D Model Kit

Assemble and use 3-D models to visualize and investigate key science structures.

- Gain a critical understanding of complex structures & processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to Engage, Explore, Explain, Extend & Evaluate their understanding of key Scientific concepts
- Satisfies NGSS Standards which encourage students to develop & use models to represent structures, systems & processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home



Cat. No.	Description	Price
S81452	Enzymes	30.00/Ea



* California - WARNING: Cancer www.P65Warnings.ca.gov
 ** California - WARNING: Reproductive Harm www.P65Warnings.ca.gov
 *** California - WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov



Small Group Learning: Enzymes And Digestion

Students will expose three nutrients (carbohydrates, proteins, and lipids) to different digestive enzymes. The samples will be compared to nutrients to which no enzymes are added and chemical tests will be used to determine if the enzymes were effective in digesting the compounds.

- Upon completion, students will not only understand the importance of the digestive system but also the vital role enzymes play in releasing nutrients from food and converting them to a form usable by the body.
- Contains enough materials for 5 groups
- Aligned to the Next Generation Science Standards (NGSS)
- Disciplinary Core Ideas: LS1.A
- Performance Expectations: MS-LS1-3
- Cross Cutting Concepts: Systems and System Models; Science is a Human Endeavor
- Engineering Practices: Engaging in Argument from Evidence



⚠️ ALERTS:

WARNING: This product can expose you to chemicals including Phenolphthalein, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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Cat. No.	Description	Price
S40732	Enzymes and Digestion Small Groups Learning Kit	22.75/Ea

Enzymes and the Process of Digestion

Understanding the vital role that enzymes play in the process of human digestive

- All the food in the world is of no use if the human body does not have the ability to extract necessary nutrients from it
- With this activity, students expose three nutrients (carbohydrates, proteins and lipids) to different digestive enzymes
- These samples tested against nutrients to which no enzymes are added to determine if the enzymes were effective in digesting the compounds
- Upon completion, students understand the importance of the digestive system and the vital role enzymes play in releasing nutrients from food and converting them to a form usable by the body
- Contains enough materials for 15 groups.



Kit Includes:

- Pancreatin (Powder, 5 g)
- Bile Salts (Powder, 0.25 g)
- Albumin Egg (Powder, 2.5 g)
- Soluble Starch (2.5 g)
- Pepsin 1:10,000 (1 g)
- Amylase Bacteriological Powder (25 g)
- 0.1M Sodium hydroxide (25 mL)
- 0.1M Hydrochloric acid (25 mL)
- Biuret for protein test (25 mL)
- 1% Phenolphthalein (25 mL)
- Dilute Iugols solution (25 mL)
- Pure Olive Oil (25 mL)
- 10 Plastic Pipets

COMPLIANCE:

DOT: Small quantity exemption 173.3.
Package conforms to 49CFR 173.4.

⚠️ ALERTS:

WARNING: This product can expose you to chemicals including Phenolphthalein, which is known to the State of California to cause cancer.

Cat. No.	Description	Price
S05800*	Enzymes and the Process of Digestion	77.00/Ea



* California - WARNING: Cancer www.P65Warnings.ca.gov

** California - WARNING: Reproductive Harm www.P65Warnings.ca.gov

*** California - WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

MyPlate - Food and Nutrition Curriculum Sets

Master key concepts of food, nutrition, and a healthy lifestyle.



Flip Chart Sets (S81085, S81094)

- The colorfully illustrated pages provide students with an engaging means to understand the food groups and the importance of making healthy lifestyle choices
- Each page is laminated, double-sided and spiral-bound on a sturdy, free-standing easel
- One side features self-directed readings and easy-to-follow graphical explanations while the reverse provides write-on/wipe-off exercises for review and reinforcement
- Includes a Student Activity Guide with copy-masters of charts and review questions
- Set includes the following 10 charts: Food Nutrients, Choose MyPlate, Fruits Food Group, Vegetables Food Group, Protein Food Group, Grains Food Group, Dairy Food Group, Oils & Fat, Nutrition Facts Labels, Making Healthy Choices

Bulletin Board Chart Sets (S81091, S81099)

- Each of the charts is laminated and double-sided
- One side features a graphic overview of the concept and easy-to-follow, illustrated explanations
- The reverse side includes write-on/wipe-off activities for student review and reinforcement
- Set includes the following 8 charts: Food Nutrients, Choose MyPlate, Fruits Food Group, Vegetables Food Group, Protein Food Group, Grains Food Group, Dairy Food Group, Oils & Fat

Student Learning Guides (S81092, S81093, S81100, S81101)

Includes grade-appropriate self-directed readings, easy-to-follow illustrated explanations, pause and review questions, interactive activities, key vocabulary review and assessment questions

- Covers food, nutrients, food groups, understanding nutrition facts labels, and making healthy choices

Visual Learning Guides Collection Sets (S81090, S81098)

Collection consists of 10 laminated, write-on/wipe-off Guides

- Each guide covers a different topic and includes 4 panels featuring an illustrated overview of the concept, labeling and review exercises, vocabulary activities, and assessment and review questions
- Includes Teacher Guide with instructions for successful classroom integration
- Comprehensive coverage of: Food Nutrients, Choose MyPlate, Fruits Food Group, Vegetables Food Group, Protein Food Group, Grains Food Group, Dairy Food Group, Oils and Fat, Healthy Snacking, Making Healthy Choices

MyPlate Learning Centers (S81096, S81087)

Designed for either teacher-directed instruction or independent use by groups of up to 4 students

- Includes four Visual Learning Guides all focused on this key topic – for direct instruction through an easy-to-follow topic overview
- Write-on/wipe-off activities
- Guiding, assessment review questions
- A Curriculum Mastery Game for small group review, featuring one set of 30 illustrated, self-checking question cards; a laminated game-board; materials for four players; and student instructions
- Ideal for use in the classroom, after-school programs, or even at home
- Provides materials for up to 4 students, takes only minutes to set up
- Stores in the zippered pouch provided for years of use



Cat. No.	Description	Price
Flip Chart Sets		
S81085	Food Groups Flip Chart; Grades 6 to 10	50.00/Ea
S81094	Food Groups Flip Chart Set; Grades 3 to 5	50.00/Ea
Bulletin Board Chart Sets		
S81091	Food & Nutrition Bulletin Board Chart Set of 8; Grades 6 to 10	27.25/Ea
S81099	Food & Nutrition Bulletin Board Chart Set of 8; Grades 3 to 5	27.25/Ea
Student Learning Guides		
S81092	Food & Nutrition Student Learning Guide; Grades 6 to 10	13.00/Ea
S81093	Food & Nutrition Student Learning Guide Set of 10; Grades 6 to 10	100.00/Ea
S81100	Food & Nutrition Student Learning Guide; Grades 3 to 5	13.00/Ea
S81101	Food & Nutrition Student Learning Guide Set of 10; Grades 6 to 10	100.00/Ea
Visual Learning Guides		
S81090	Food & Nutrition Visual Learning Guides Collection Set of 10; Grades 6 to 10	50.00/Ea
S81098	Food & Nutrition Visual Learning Guides Collection Set of 10; Grades 3 to 5	50.00/Ea
MyPlate Learning Centers		
S81096	Choose MyPlate Learning Center; Grades 3 to 5	26.25/Ea
S81087	Learning Center; Grades 6 to 10	26.25/Ea

Food Nutrients Learning Centers

Master key concepts of food, nutrition, and a healthy lifestyle.



- Designed for either teacher-directed instruction or independent use by groups of up to 4 students
- The Learning Center covers Food Nutrients
- Includes four Visual Learning Guides all focused on this key topic – for direct instruction through an easy-to-follow topic overview
- Write-on/wipe-off activities
- Guiding, assessment review questions
- A Curriculum Mastery Game for small group review, featuring one set of 30 illustrated, self-checking question cards; a laminated game-board; materials for four players; and student instructions
- Ideal for use in the classroom, after-school programs, or even at home
- Provides materials for up to 4 students, takes only minutes to set up
- Stores in the zippered pouch provided for years of use

Cat. No.	Description	Price
S81088	Understanding Nutrition Facts Learning Center; Grades 6 to 10	26.25/Ea
S81097	Making Healthy Choices Learning Center; Grades 3 to 5	26.25/Ea
S81086	Food Nutrients Learning Center; Grades 6 to 10	26.25/Ea
S81089	Making Healthy Choices Learning Center; Grades 6 to 10	26.25/Ea
S81095	Food Nutrients Learning Center; Grades 3 to 5	26.25/Ea



REMOTE LEARNING ENGAGE YOUR STUDENTS

Find tools and materials to keep your students engaged at [fisheredu.com/remotelearning](https://www.fisheredu.com/remotelearning).

Eisco Food Calorimeter

Allows students to determine the amount of energy released through the burning of food. Eisco Food Calorimeter is an easy method involves the measuring of the change in temperature of a sample of water from the combustion of a small amount of food.

- Experiment introduces concepts in thermodynamics and leads to an understanding of energy and its relation to food consumption
- Experiment Guide included with product

Kit Contains:

- Erlenmeyer Flask (125mL)
- Cylindrical Metal Stand: Dia x H: 4 x 6.75 in.
- Metal suspension plate 4.5 x 4.5 in.
- Cork with nail (Food sample Holding assembly)
- Rubber stopper



Cat. No.	Description	Price
S23759	Food Calorimeter	28.25/Ea

LAB-AIDS™ Food Nutrient Analysis (limited shelf life)

Test common foods for presence of nutrients, quantitatively determine Vitamin C in foods and standardize all tests.

Working in teams, students are asked to test for, and identify, five classes of nutrients: sugar, starch, lipid, protein, and Vitamin C. Once the tests have been completed and their observations have been made, students are then asked to draw conclusions about their results, the controls, and samples that showed no reaction. It is necessary to have a hot water bath available for the test of simple sugars. This kit has a limited shelf-life.



INCLUDES:

- 30 test tubes
- Drop controlled bottles of sugar, starch, lipid, protein and vitamin C solutions
- All necessary reagents (12 drop-control bottles)
- Wax pencil
- 30 student guides
- Teacher's guide with Safety Data Sheets

REQUIRES:

Hot water bath (for test of simple sugars), not included

Cat. No.	Description	Price
S19340	Food Nutrient Analysis	121.00/Ea

Small Group Learning: Science In The Kitchen

This comprehensive kit incorporates a variety of scientific techniques all themed around common kitchen materials.



Students will:

- Perform chromatography on commercial food colors
- Perform chemical tests to identify an unknown cooking ingredient
- Examine the protein digesting ability of a common meat tenderizing enzyme
- Use titration to quantify vitamin C levels
- Test an unknown juice or soda (not provided)
- Examine some of the differences and similarities in the materials used to clean (soap, hand dishwashing detergent, and machine dishwashing detergent)
- Kit contains enough materials for 5 groups
- Teacher's Manual and Student Study Guide copymasters are included
- Aligned to the Next Generation Science Standards (NGSS)
- Disciplinary Core Ideas: PS1.A; PS1.B
- Performance Expectations: MS-PS1-2; MS-PS1-3; HS-PS1-3
- Cross Cutting Concepts: Patterns; Structure and Function
- Engineering Practices: Analyzing and Interpreting Data; Obtaining, Evaluating and Communicating Information; Planning and Carrying Out Investigations
- 11.75L x 9W x 4 in.H



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Cat. No.	Description	Price
S40755	Science in the Kitchen	75.00/Ea

Kemtec™ Kitchen Science Kit

Kemtec™ Kitchen Science Kit explores yeast as a living organism through chemical and biological leavening



- The kitchen is a fantastic, yet familiar setting for exploring physical and chemical properties
- Learn chemistry and biology using common baking ingredients
- Explore how different preparation methods using the same ingredients affect the textures and flavors of foods
- Includes five experiments
- Explore the properties of yeast through experiments and class demonstrations
- Compare internal structures and textures of baked goods
- Grades 7-10
- Includes worksheets, assessment materials, graphing exercises, simple recipes, and answer keys.



Cat. No.	Description	Price
S30818	Kitchen Science Kit	260.00/Ea

Advanced Placement

AP™ LAB 1: Artificial Selection

Students learn how artificial selection works.

Students will perform artificial selection on a population of Quick Plant™ and identify traits that vary in the population. Then they will perform artificial selection by cross-pollinating only selected plants and observe the trait differences between the two populations to learn how selection works.

INCLUDES:

- Quick Plant seeds
- Nylon mason twine
- Potting mix
- Miracle-Gro™ fertilizer
- Vermiculite
- Bees
- Plastic magnifier
- Wooden toothpicks
- Instructions

REQUIRES:

- Growing System: reused plastic soda or water bottles (500mL)
- Lighting
- Light box system
- Digital cameras
- Lab notebook
- Water
- Tape
- Razor

ORDERING INFORMATION:

- Class size: 10 laboratory groups
- Takes 30-minute lab periods over course of 5 to 7 weeks to complete the process



Cat. No.	Description	Price
S06879	AP Lab 1: Artificial Selection	102.00/Ea

AP Biology Investigation Kit No. 5: Photosynthesis

Students learn necessary components and conditions for photosynthesis using leaf disks to measure oxygen accumulation and its affect on the process.



Students will design and conduct an experiment using a selected variable to examine the rate of photosynthesis.

- Meets AP Science Practices 1, 2, 3, 6 and 7, and Big Idea 2
- Includes enough materials for eight lab groups
- For grades 10-12

INCLUDES:

- Dilute soap solution - 30mL
- Hole punch
- Plastic cups -16 count
- Sodium bicarbonate - 50g
- Syringes, 10mL - 16 count
- Teacher's manual and student study guide

REQUIRES:

- Living plant leaves
- Timers or stop watches
- Light source
- Distille or deionized water

AP LAB 6: Cellular Respiration

Students use small respirometers to determine O₂ consumption.

In this experiment, students learn how to apply the gas laws to the function of the microrespirometer. Students will observe cell respiration of germinating seeds and describe the effects of temperature on the rate of cell respiration.

ORDERING INFORMATION:

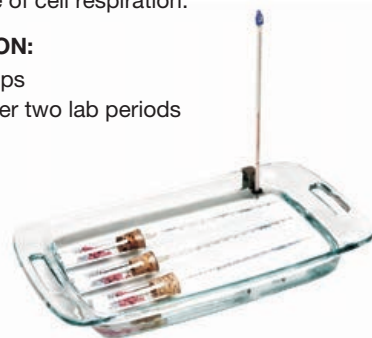
- Class size: 10 lab groups
- Requires two hours over two lab periods

INCLUDES:

- Instructions
- 1mL Pipet
- Glass beads
- Peas
- Potassium hydroxide solution
- Cork stoppers
- Absorbent cotton
- Nonabsorbent cotton
- Plastic vials
- Parafilm

REQUIRES:

- 10 Thermometers
- 10 Trays (at least 14 in. [35.6cm] long)
- Silicon glue
- Ice
- Cork borer
- Tape and Timers



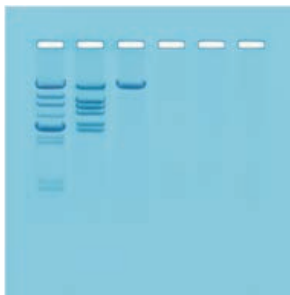
Cat. No.	Description	Price
S07045	AP Kit 5: Photosynthesis Study Kit	61.75/Ea

Cat. No.	Description	Price
S06884	AP Lab 6: Cellular Respiration	72.00/Ea

AP LAB 9: Biotechnology – Restriction Enzyme Analysis of DNA

For analysis of Eco RI cleavage patterns of lambda DNA

- This experiment introduces the use of restriction enzymes as a tool to digest DNA at specific nucleotide sequences
- Bacteriophage lambda DNA has a linear structure and six Eco RI recognition sites
- Separation by agarose gel electrophoresis of an Eco RI digest of lambda DNA will yield six bands (five distinct bands, two are very close in size) corresponding to the DNA fragments



ORDERING INFORMATION:

- For six gels
- Takes one hour to complete

INCLUDES:

- Instructions
- DNA samples (packaged as either Pre-aliquoted QuickStrip™ connected tubes or as individual 1.5 ml (or 0.5 ml) microcentrifuge tubes)
- UltraSpec-Agarose™
- Electrophoresis Buffer (50X)
- Practice Gel Loading Solution
- FlashBlue™ DNA Stain
- InstaStain™ Blue Cards
- Disposable Pipets.

REQUIRES:

- Horizontal gel electrophoresis apparatus
- DC power supply
- Automatic micropipets with tips
- Balance
- Microwave
- Hotplate or burner
- Pipet pump
- 250mL Flasks or beakers
- Hot gloves
- Safety goggles
- Disposable laboratory gloves
- Small plastic trays or large weigh boats (for gel destaining)
- DNA visualization system (white light)
- Distilled or deionized water

AP Biology Investigation Kit No. 8: Bacterial Transformation

Students genetically engineer bacteria through transformation with a plasmid that confers antibiotic resistance.



- Efficiency of the procedure is determined by examining the number of resistant bacteria
- Includes teachers manual and student study guide copymasters
- Meets AP Science Practices 1, 3, 5, 6, and 7, and Big Idea 3
- For eight lab groups

Recommended: Incubator (37°C). Requires: Large beaker, microwave (not necessary if melting agar in a waterbath), microfuge tube racks, hot plate or waterbath, markers, and container of ice.

INCLUDES:

- Sterile Calcium Chloride 0.05M (30mL)
- 16 Sterile volumetric pipets
- Eight Pipet bulbs
- Eight micropipets w/plunger (10µL)
- 16 Microcentrifuge Tubes (1.5mL)
- Eight sterile inoculating loops
- 40 Petri dishes
- Four Luria agar (200mL)
- One Luria broth tube (9mL)

Perishable materials are supplied via coupon redeemable by fax, phone or e-mail, and include:

- One E. Coli culture (freeze dried)
- Two bottles 0.02g Ampicillin
- 1000ng pUC 19 Plasmid
- One Tryptic Soy Broth tube (9mL)
- One Tryptic Soy Agar slant (6mL)
- One sterile, disposable pipet

Cat. No.	Description	Price
S06887	AP Lab 9: Restriction Enzymes Analysis of DNA	117.00/Ea

Cat. No.	Description	Price
S07058	AP Biology Investigation Kit No. 8: Bacterial Transformation	225.00/Ea

Biotechnology

Genetics

Genetics: The Study of Heredity Flip Chart with Online Multimedia Lesson



Combine illuminating graphics and write-on/wipe-off exercises with multimedia lessons to master key life science topics.

- Provides graphical instruction and write-on/wipe-off activities with one-year online access to a corresponding Multimedia Lesson featuring in-depth, interactive coverage of the concept
- The Multimedia Lesson can be accessed by a teacher and ALL of your students anywhere, anytime, on any device – including Chromebooks, tablets, computers and mobile devices.
- Flip Chart Set features 10 Laminated, Double-Sided Charts
- Side 1 features a graphic overview of the topic while Side 2 provides corresponding write-on/wipe-off activities for review and reinforcement
- Includes a Teacher Guide with copymaster activities and review questions
- Spiral-bound and mounted on a sturdy easel for years of use, the Flip Chart sets are ideal for small group instruction, learning centers, independent use or classroom reference
- Also included is one year access to a corresponding online multimedia lesson for a teacher and all their students
- Each lesson features Animated, Narrated Tutorials; Interactive Exercises & Activities; Virtual Lab Investigations; Illustrated, Narrated Glossary; Visual Resource Library; and an Inquiry-Based Student Activity Guide



- Developed under sponsorship of the National Institutes of Health (NIH), the lessons are perfect for individual student instruction on any computer as well as classroom presentation on any Interactive Whiteboard
- Covers: Inheritance of Traits; Chromosomes & Karyotypes; Gregor Mendel; Mendel's Experiments; Dominant & Recessive Traits; Punnett Squares; Phenotypes & Genotypes; Codominance; and Making a Pedigree

Cat. No.	Description	Price
S81109	The Study of Heredity Flip Chart with Online Multimedia Lesson	50.00/Ea

Chromosomes 3-D Model Kit

Assemble and use 3-D models to visualize and investigate key science structures.



- Gain a critical understanding of complex structures & processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to Engage, Explore, Explain, Extend & Evaluate their understanding of key Scientific concepts
- Satisfies NGSS Standards which encourage students to develop & use models to represent structures, systems & processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home



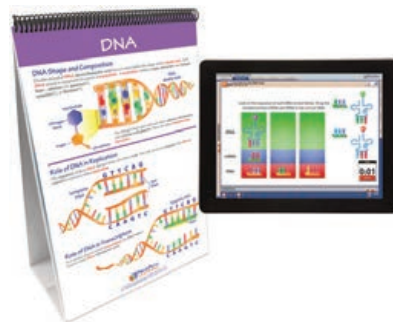
Cat. No.	Description	Price
S81446	Chromosomes 3-D Model Kit	30.00/Ea

Chromosomes, Genes & DNA Flip Chart with Online Multimedia Lesson



Combine illuminating graphics and write-on/wipe-off exercises with multimedia lessons to master key life science topics.

- Provides graphical instruction and write-on/wipe-off activities with one-year online access to a corresponding Multimedia Lesson featuring in-depth, interactive coverage of the concept
- The Multimedia Lesson can be accessed by a teacher and ALL of your students anywhere, anytime, on any device – including Chromebooks, tablets, computers and mobile devices.
- Flip Chart Set features 10 Laminated, Double-Sided Charts
- Side 1 features a graphic overview of the topic while Side 2 provides corresponding write-on/wipe-off activities for review and reinforcement
- Includes a Teacher Guide with copymaster activities and review questions
- Spiral-bound and mounted on a sturdy easel for years of use, the Flip Chart sets are ideal for small group instruction, learning centers, independent use or classroom reference
- Also included is one year access to a corresponding online multimedia lesson for a teacher and all their students
- Each lesson features Animated, Narrated Tutorials; Interactive Exercises & Activities; Virtual Lab Investigations; Illustrated, Narrated Glossary; Visual Resource Library; and an Inquiry-Based Student Activity Guide



- Developed under sponsorship of the National Institutes of Health (NIH), the lessons are perfect for individual student instruction on any computer as well as classroom presentation on any Interactive Whiteboard
- Covers: Chromosomes; Genes; DNA/ RNA Structure; From DNA to Protein; DNA Transcription; Translation; The Genetic Code; and Mutations

Cat. No.	Description	Price
S81108	Chromosomes, Genes & DNA Flip Chart with Online Multimedia Lesson	50.00/Ea

K'NEX Education™ DNA Replication and Transcription Set

This wonderfully flexible set demonstrates DNA and mRNA molecules and processes.

Builds 19 models, two at a time.

- Students build and learn about phosphate groups, deoxyribose and ribose sugars, hydrogen bonds, codons, nucleotides, DNA structure, transcription and mRNA production, molecular basis of heredity and much more
- Pieces easily unsnap for replication and transcription activities
- Durable, stackable storage case has movable dividers and transparent lockable lid

Build models:

- Parent DNA molecule, unwound
- Parent DNA model as a flexible double helix
- Parent DNA molecule, stand-mounted
- Two parent/daughter DNA molecules, unwound
- Two parent/daughter DNA molecules, stand-mounted
- Large parent/daughter DNA molecule, flexible
- Two mRNA molecules transcribed from DNA molecule

ORDERING INFORMATION:

Supports two to three students working as a team.
Grades 5 to 12. Aligned to national and state standards.



INCLUDES:

- 521 Pieces
- Comprehensive teacher guide

Cat. No.	Description	Price
S68801	DNA, Replication and Transcription Kit, Single	66.25/Ea

Lab-Aids™ Molecular Model of DNA and its Replication

Build a segment of the DNA molecule and see what a double helix is like. Model can be 'unzipped' allowing for replication of DNA segment.



This basic introduction to the double helix model of DNA uses simple components developed exclusively by Lab-Aids™. Those unique components include double nitrogen pyrimidine bases are constructed proportionately larger in diameter than the single nitrogen purine bases. Bases are linked by a unique hydrogen bond. The deoxyribose sugar is pentagon-shaped representing its actual molecular structure. Twelve eight-rung models can be constructed with each kit or attach individual models together to form a giant double helix model that will be more than nine feet long.

ORDERING INFORMATION:

Accommodates 12 groups of two students

INCLUDES:

12 color-coded components packets containing: 16 Deoxyribose-sugar groups - black linkage; 16 Phosphate groups - white tubes; 8 Nitrogen (purine) bases: 4 Adenine (A) - orange tubes, 4 Guanine (G) - yellow tubes; 8 Nitrogen (pyrimidine) bases: 4 Cytosine (C) - blue tubes, 4 Thymine (T) - green tubes; 8 Hydrogen bonds - opaque rods; 1 teacher's guide; 36 student guides

Cat. No.	Description	Price
S19379	Molecular Model of DNA/Replication Kit	112.00/Ea



DNA Replication 3-D Model Kit

Assemble and use 3-D models to visualize and investigate key science processes.

- Gain a critical understanding of complex structures & processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups



- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to Engage, Explore, Explain, Extend & Evaluate their understanding of key Scientific concepts
- Satisfies NGSS Standards which encourage students to develop & use models to represent structures, systems & processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home

Cat. No.	Description	Price
S81450	DNA Replication 3-D Model Kit	30.00/Ea

Transcription 3-D Model Kit



Assemble and use 3-D models to visualize and investigate key science processes.



- Gain a critical understanding of complex structures & processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to Engage, Explore, Explain, Extend & Evaluate their understanding of key Scientific concepts
- Satisfies NGSS Standards which encourage students to develop & use models to represent structures, systems & processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home

Cat. No.	Description	Price
S81465	Transcription 3-D Model Kit	30.00/Ea

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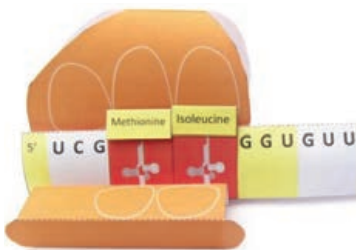
Visit [fisheredu.com/biotechnology](https://www.fisheredu.com/biotechnology) for the latest resources, products and training information.

Translation & Protein Synthesis 3-D Model Kit



Assemble and use 3-D models to visualize and investigate key science processes.

- Gain a critical understanding of complex structures & processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to Engage, Explore, Explain, Extend & Evaluate their understanding of key Scientific concepts
- Satisfies NGSS Standards which encourage students to develop & use models to represent structures, systems & processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home



Cat. No.	Description	Price
S81466	Translation and Protein Synthesis	30.00/Ea

United Scientific DNA Model and Kit

Accurately depicts a 16-base-pair section of DNA.

- Built to a scale of 10cm to 1nm
- Phosphate-deoxyribose backbone and the four bases represented by custom plastic moldings
- Moldings show the shapes of the molecules in scale and illustrate the bonding between them
- Handedness of the backbone chains and the relative sizes of the major and minor grooves in the relaxed molecule are correctly portrayed
- Supported by a central pillar, which can rotate on a circular stand



ORDERING INFORMATION:

Dimensions: 25 × 9 × 9 in.
(63.5 × 22.9 × 22.9cm).

Cat. No.	Description	Price
S05910	DNA Model Kit, assembled	83.00/Ea
S06993	DNA Model Kit, unassembled	52.00/Ea

DNA Structure 3-D Model Kit



Assemble and use 3-D models to visualize and investigate key science structures.

- Gain a critical understanding of complex structures & processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to Engage, Explore, Explain, Extend & Evaluate their understanding of key Scientific concepts
- Satisfies NGSS Standards which encourage students to develop & use models to represent structures, systems & processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home



Cat. No.	Description	Price
S81451	DNA Structure 3-D Model Kit	30.00/Ea

Gene Cloning 3-D Model Kit



Assemble and use 3-D models to visualize and investigate key science processes.

- Gain a critical understanding of complex structures & processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to Engage, Explore, Explain, Extend & Evaluate their understanding of key Scientific concepts
- Satisfies NGSS Standards which encourage students to develop & use models to represent structures, systems & processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home



Cat. No.	Description	Price
S81456	Gene Cloning 3D Model Kit	30.00/Ea

United Scientific Protein Synthesis Manipulative Kit

Teach protein synthesis with hands-on manipulatives.

Large, colorful models of DNA, mRNA, ribosome, tRNA and amino acid attach to the blackboard for a visual simulation of protein synthesis.

- Smaller size models provide students with hands-on learning Activities include identifying the amino acid sequence resulting from a unique DNA sequence
- Includes an instructional CD-ROM with suggested activities

ORDERING INFORMATION:

Class size: 30 students working in groups of five.

Cat. No.	Description	Price
S65998	Protein Synthesis Manipulative Kit	394.00/Ea



Small Group Learning: Intro To Mendelian Genetics

In this activity, students determine patterns of inheritance using special chips and double dice to simulate both monohybrid and dihybrid crosses.

When Austrian monk Gregor Mendel began observing and analyzing various traits of pea plants in the 1800s, little did he realize that his work would eventually become a foundation for the basis of modern genetics.

- After conducting crosses, students will be able determine genotypic and phenotypic ratios for select traits and compare their values to the theoretical ideal values as put forth by Mendel.
- Contains enough materials for 5 groups
- Aligned to the Next Generation Science Standards (NGSS)
- Disciplinary Core Ideas: LS4.B; LS4.C
- Performance Expectations: HS-LS4-3; HS-LS4-4; HS-LS4-5
- Cross Cutting Concepts: Patterns; Cause and Effect
- Engineering Practices: Analyzing and Interpreting Data; Constructing Explanations and Designing Solutions; Engaging in Argument from Evidence



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Cat. No.	Description	Price
S40733	Small Group Learning: Intro To Mendelian Genetics	20.00/Ea

Kemtec™ Genetics I Kit

Kemtec™ Genetics I Kit includes three activities that introduce students to Punnet Squares, and other genetic topics

- Make genetics personal by helping students assess their own genetic traits
- Model homologous chromosomes to demonstrate how reproduction results in the inheritance of genetic variation
- Use Punnett squares to predict the distribution and variation of expressed traits in humans, plants, and animals
- Introduces allele frequency, phenotypes, genotypes, monohybrid and dihybrid crosses, test crosses, dominance, incomplete dominance, codominance, and recessives
- Addresses National Standards for Grade Levels 6-10
- MS-LS3-2, MS-LS3.A, MS-LS3.B, HS-LS3-3

Cat. No.	Description	Price
S30806	Genetics I Kit	112.00/Ea



Exploring Biotechnology with Green Fluorescent Protein (GFP)

Four experimental modules are combined into one experiment to provide a comprehensive biotechnology exploration focusing on the green fluorescent protein (GFP).

- Bacterial cells are transformed to express the green fluorescent protein (GFP)
- Transformed cells are then grown and the GFP is purified by column chromatography
- The purity of the protein fractions are analyzed by SDS polyacrylamide electrophoresis

Experiment times:

- Module I: Transformation, 45 minutes
- Module II: Isolation of GFP, 45 minutes
- Module III: Purification of GFP by Chromatography, 45 minutes
- Module IV: Analysis by GFP by Denaturing SDS Gel Electrophoresis, one hour

ORDERING INFORMATION:

Contains materials for six experiments with four modules each.

STORAGE:

Some components require freezer storage

INCLUDES:

Instructions; BactoBeads; Plasmid DNA for GFP; IPTG; Ampicillin antibiotic; Calcium chloride; ReadyPour™ luria broth agar; Luria broth media for recovery; Petri plates; Pipets; Calibrated transfer pipets; Inoculating loops; Microtest tubes with attached caps; Toothpicks; Dry matrix for columns; Chromatography columns; Green fluorescent protein extracts; Elution buffer; Protein molecular weight standards; Protein denaturation solution; Glycerol solution; Tris-Glycine-SDS buffer; Stains

REQUIRES:

Incubation oven; Two water baths; Microwave or hotplate; Automatic micropipet and tips; Pipet pumps or bulbs; Ice; Long-wave UV light; Ring stand and clamps; Lab glassware; Ice; Vertical gel electrophoresis apparatus; Power supply; Three polyacrylamide gels (12%); Plastic trays or large weigh boats for optional staining and destaining; Glacial acetic acid; Methanol



Cat. No.	Description	Price
S05657	Exploring Biotechnology with Green Fluorescent Protein (GFP)	221.00/Ea

Lab-Aids™ Genes, Mutations, Evolution & Sickle Cell (Developed by SEPUP)

Follow the inheritance of a hemoglobin mutation through generations with the Lab-Aids™ Genes, Mutations, Evolution, and Sickle Cell science kit.

- In Part 1, students follow the inheritance of a hemoglobin mutation through two generations. Students identify patterns in their data and investigate the cause-and-effect relationship between environmental conditions and the frequency of a trait in a population. Based on their data collection and analysis, students construct explanations for how changes to a gene influence an organism's ability to survive and reproduce.
- Specifically, students use the example of hemoglobin to explain how structural changes to genes (i.e., mutations), lead to changes in protein structure and function, and how this can lead to changes in the function of red blood cells which, in turn, can affect survival of individuals with the mutation.
- In Part 2, students use a computer simulation to extend their investigation of the hemoglobin mutation. Initially, the simulation extends their data from the previous activity through 30 generations. Then students are able to adjust the environmental conditions to see how access to resources and the prevalence of malaria influence the distribution of the hemoglobin gene over time. Part 2 works best when students work in pairs.
- Accommodates unlimited classes, each with 8 groups of 4 students.
- Performance Expectations: MS-LS3-1, MS-LS4-6, MS-LS4-4
- Disciplinary Core Ideas: MS-LS3.A, MS-LS3.B, MS-LS4.C, MS-LS4.B
- Crosscutting Concepts: Structure and Function, Cause and Effect, Patterns



- Common Core State Standards – Mathematics: 6.RP.A.1, 6.SP.B.5
- Common Core State Standards – ELA/Literacy: SL.8.1, SL.8.4

INCLUDES:

32 First Generation profile cards, 32 First Generation Survivor profile cards, 34 Hemoglobin plastic disks (16 HH typical, 16 Hh sickle cell carrier, and hh sickle cell anemic), 32 Student Guides, 1 Teacher's Guide

Cat. No.	Description	Price
S27122	Genes and Mutations Kit	112.00/Ea

Lab-Aids™ Modeling the Inheritance of Traits (Developed by SEPUP)



Model and explain wide variations that result from sexual reproduction, and identify cause-and-effect relationships for additional traits.

- Students model the diversity of offspring possible from two parents and discover patterns of inheritance other than strict dominant/recessive traits.
- These patterns help them model and explain the wide variation that can result from sexual reproduction and explore the cause-and-effect relationships for additional traits of the critters
- 32 pennies, a supply of small sticky notes, and eight sets of colored pencils are required for use during the activity but are not included in the materials kit.



INCLUDES:

- 56 1.5 in. foam balls
- 16 1 in. foam balls
- 16 blue chenille stems
- 16 orange chenille stems
- 100 round-head brass fasteners
- 40 red straws
- 50 green straws
- 60 blue straws
- 50 yellow paper clips
- 40 blue thumbtacks
- 100 toothpicks
- 32 Student Guides
- 1 Teacher's Guide

Detection of Genetically Modified Organisms Kit

Use of agarose gel electrophoresis to explore molecular methods used by scientists to identify genetically modified organisms.

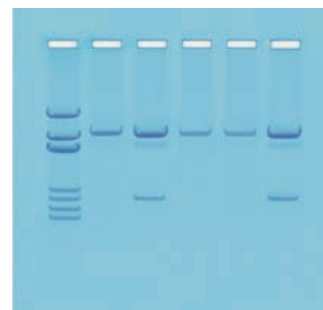
- No thermal cycler is required
- Students are encouraged to explore controversy surrounding use of genetically modified organisms
- For 8 gels
- Completes in 60 minutes

Storage:

- Stable at room temperature. Recommended to store Ready-to-Load QuickStrip™ samples in refrigerator

Includes:

- Instructions
- Ready-to-Load™ QuickStrip™ DNA samples
- UltraSpec-Agarose™ powder
- Practice gel loading solution
- Electrophoresis buffer
- InstaStain™ Blue and FlashBlue™ stain
- Calibrated pipette
- Microtipped transfer pipettes



Materials needed:

- Electrophoresis apparatus
- Power supply
- Automatic micropipet and tips
- Balance
- Microwave or hot plate
- White light visualization system

Cat. No.	Description	Price
S27116	Inheritance of Traits Kit	231.00/Ea

Cat. No.	Description	Price
S21121	Detection of Genetically Modified Organisms Kit	117.00/Ea

Lab-Aids™ Skeletal & Embryological Evidence for Evolutionary Relationships (Developed by SEPUP)



Examine forelimb skeletons of six species to identify bones with homologous structures and functions.

- In this three-part activity, students first examine forelimb skeletons of six species to identify bones with homologous structures and Although the fully formed limbs appear different on the outside, students are able to identify similarities at the skeletal level.
- Students then examine embryological development of limbs and notice many similarities between different species not obvious in the mature animals.
- Students examine the development of whole embryos of different species to infer evolutionary relationships.
- Accommodates unlimited classes with 8 groups of 4 students.
- Performance Expectations: MS-LS4-3, MS-LS4.2
- Disciplinary Core Ideas: MS-LS4.A
- Science and Engineering Practices: Analyzing and Interpreting Data
- Crosscutting Concepts: Patterns, Structure and Function
- Common Core State Standards – ELA/Literacy: RST.6-8.7

INCLUDES:

- 8 Sets of 12 Embryonic Limb Cards
- 8 Sets of 20 Whole Embryo Cards
- 8 Sets of colored pencils
- 32 Student Guides
- 1 Teacher's Guide



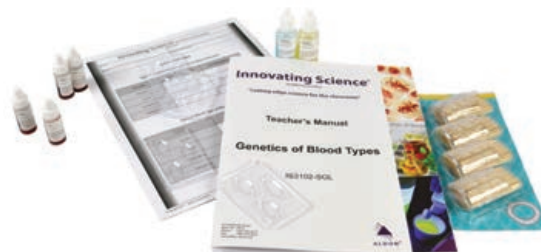
Cat. No.	Description	Price
S27123	Evolutionary Relationships Kit	192.00/Ea



Small Group Learning: Genetics Of Blood Types

Blood type, an inherited characteristic, has use in everything from forensic investigations to medical procedures. In this activity, students will learn about the genetics that determine blood type and the possible inheritance patterns and how they express themselves.

- Students will use simulated blood to determine the blood type of four unknown samples and use their results to assist in the resolution of a fictional paternity dispute
- Kit contains materials for 5 groups
- Aligned to the Next Generation Science Standards (NGSS)
- Disciplinary Core Ideas: PS1.A; PS1.B; LS1.A; LS1.B; LS3.A; LS3.B
- Performance Expectations: MS-PS1-2; MS-LS3-2; HS-LS3-1; HS-LS3-3
Cross Cutting Concepts: Structure and Function; Cause and Effect; Scale, Proportion and Quantity; Science is a Human Endeavor
- Engineering Practices: Developing and Using Models; Asking Questions and Defining Problems; Analyzing and Interpreting Data



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Cat. No.	Description	Price
S40735	Small Group Learning: Genetics Of Blood Types; For 5 groups	19.25/Ea

Sickle Cell Gene Detection

Gain an understanding of the effect of mutations on health and disease.

- Genetically inherited diseases in humans can be caused by a single nucleotide mutation resulting in a change. Such a substitution can affect the structure and function of a critical protein, rendering it partially or completely nonfunctional. A classic example is hemoglobin in sickle cell anemia
- Agarose gel-based experiment designed for DNA staining and visualization with InstaStain™ Methylene Blue
- Demonstrates the use of a restriction enzyme that discriminates between the normal and sickle cell hemoglobin genes
- This experiment does not contain human DNA

INCLUDES:

Instructions, Ready-to-Load QuickStrip™ DNA Samples, UltraSpec-Agarose™, Electrophoresis Buffer (50X), 10X Gel Loading Solution, FlashBlue™ DNA Stain, InstaStain™ Blue Cards, & Disposable Pipets

REQUIRES:

Horizontal gel electrophoresis apparatus; D.C. power supply; Automatic micropipets with tips; Balance; Microwave, hotplate or burner; Pipet pump; 250mL flasks or beakers; Hot gloves; Safety goggles and disposable laboratory gloves; Small plastic trays or large weigh boats (for gel destaining); DNA visualization system (white light); Distilled or deionized water



Cat. No.	Description	Price
S94670	Sickle Cell Gene Detection (DNA-based)	117.00/Ea

The Mystery of the Crooked Cell

Demonstrates detection of the mutation that causes sickle cell anemia.

Students use electrophoresis to separate dyes that represent patient samples and controls. Developed in partnership with Boston University School of Medicine.

INCLUDES:

- Ready-to-Load™ dye samples
- Agarose powder
- Practice gel-loading solution
- Electrophoresis buffer
- Microtipped transfer pipets
- Instructions

REQUIRES:

- Electrophoresis tank
- Power supply



Cat. No.	Description	Price
S96377	The Mystery of the Crooked Cells Kit	72.00/Ea

Lab-Aids™ Genetic Equilibrium and Natural Selection

Students study the principles of genetic equilibrium and natural selection as a process of evolution. Lab-Aids™ Genetic Equilibrium and Natural Selection is a practical simulation to help students understand these concepts.

Students study the principles of genetic equilibrium and natural selection as a process of evolution using this kit. A simulation is used to develop insights about the genetic process involved when natural selection operates within a population in genetic equilibrium. Students use the data collected in the Hardy-Weinberg Equilibrium to understand better the actual complexity of natural selection. Accommodates unlimited classes, each with 15 groups of 2.



INCLUDES:

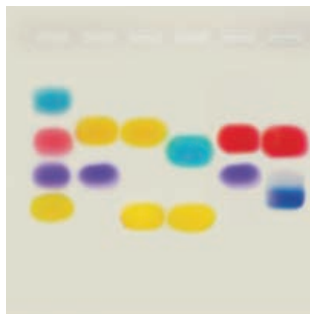
Teacher's guide; 30 student guides; 15 shakers; 60 alleles, plastic, dark-colored; 40 alleles, plastic, light-colored

Cat. No.	Description	Price
S20971	Kit: Genetic Equilibrium and Natural Selection	93.00/Ea

In Search of My Father

Solve the mystery of two boys separated from their parents a decade ago.

- Students identify the biological mother by mitochondrial DNA
- Identify the biological father using chromosomal DNA
- Complete in 45 minutes



ORDERING INFORMATION:

For 10 lab groups.

INCLUDES:

- Instructions
- Ready-to-Load™ dye samples
- Agarose powder
- Practice gel-loading solution
- Buffer
- Microtipped transfer pipets

REQUIRES:

- Electrophoresis apparatus
- Power supply
- Microwave or hotplate

Cat. No.	Description	Price
S05713	In Search of My Father	72.00/Ea

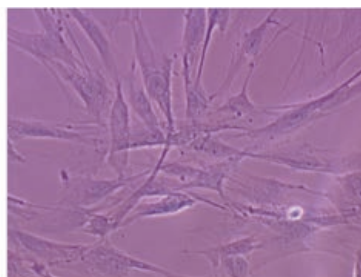
Mammalian Cell Culture Kits

Offer a microscopic comparison of the morphology of normal and transformed mammalian cells.

Provide an understanding and visual comparison of the morphology of various normal and transformed mammalian cells by microscopic examination. Procedures similar to these are used to examine biopsy specimens.

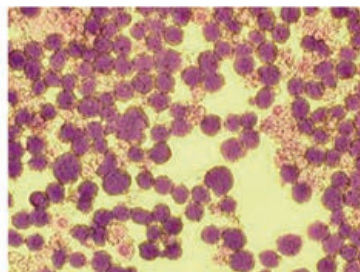
Analysis and Comparison of Various Mammalian Cell Types

- Fixes and stains four different cell types for direct microscopic comparison to show the differences between normal and transformed cell cultures



Morphology of Cancer Cells

- Compares the contact inhibition of normal cells to the increased growth of cancer cell colonies



INCLUDES:

- All necessary materials plus complete instructions, background information, and study questions.

REQUIRES:

- Microscope with 400–600X magnification
- Forceps
- Gloves
- Distilled water
- Differentiation of Human Cells by Retinoic Acid also requires immersion oil and immersion objectives for the microscope

ORDERING INFORMATION:

- Most kits will supply six groups of students.

Cat. No.	Description	Price
S67199	Morphology of Cancer Cells	140.00/Ea
S67196	Analysis of Mammalian Cell Types	146.00/Ea

Cholesterol Diagnostics

Study cholesterol-based diseases.

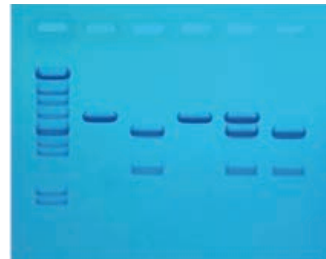
- In this experiment, a simulated genetic test for familial hypercholesterolemia (FH) is demonstrated in which patients are tested for a DNA polymorphism linked to the FH gene
- Develop an understanding of the genetics and DNA-based diagnostics of cholesterol-based diseases
- This experiment does not contain human DNA

INCLUDES:

Instructions, Ready-to-Load QuickStrip™ DNA Samples, UltraSpec-Agarose™, Electrophoresis Buffer (50X), 10X Gel Loading Solution, FlashBlue™ DNA Stain, InstaStain™ Blue Cards, & Disposable Pipets

REQUIRES:

Horizontal gel electrophoresis apparatus; DC power supply; Automatic micropipets with tips; Balance; Microwave, hotplate or burner; Pipet pump; 250mL flasks or beakers; Hot gloves; Safety goggles and disposable laboratory gloves; Small plastic trays or large weigh boats for gel destaining; DNA visualization system (white light); Distilled or deionized water



Cat. No.	Description	Price
S94608	Cholesterol Diagnostics	117.00/Ea

DNA Fingerprinting Using Restriction Enzymes

Learn about restriction enzymes.

- The objective of this simulated forensic analysis is to develop an understanding of DNA fingerprinting by use of restriction enzymes
- Hypothetical crime scene samples are provided in addition to DNA samples, restriction enzymes and reaction buffer to digest suspect's DNA
- Digestion products are separated by agarose gel electrophoresis
- Students determine the guilty suspect through identification of the unique restriction enzyme fragmentation patterns
- Does not contain human DNA
- Some components require refrigeration, some require freezing

ORDERING INFORMATION:

Contains materials for six gels (six lanes each) with InstaStain™ Methylene Blue.

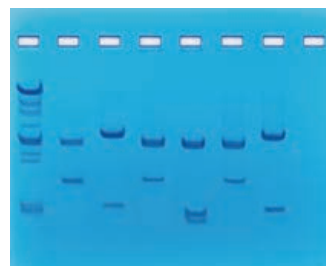
INCLUDES:

instructions, "crime scene" and "suspect" Ready-to-Load™ DNA samples, DNA Standard Marker, Dryzymes™ - Eco RI and Hind III, Enzyme Reaction Buffer, Reconstitution Buffer, Enzyme Grade Water, UltraSpec-Agarose™, 10X Gel Loading Solution, 50X Concentrated Electrophoresis Buffer, Practice Gel Loading Solution, InstaStain™ Blue Cards, FlashBlue™ DNA Stain, Disposable Pipets, & Microcentrifuge Tubes

REQUIRES:

Horizontal gel electrophoresis apparatus; DC power supply; Automatic micropipets with tips; Water bath; Hotplate, Bunsen burner or microwave oven

Recommended: DNA visualization system (white light); Staining tray and net; 250mL flasks; Pipet pump; Hot gloves; Marking pens; Distilled or deionized water; Ice



Cat. No.	Description	Price
S94610	DNA Fingerprinting Using Restriction Enzymes	146.00/Ea

DNA Fingerprinting by PCR Amplification

Demonstrates the utility of DNA amplification in forensics.

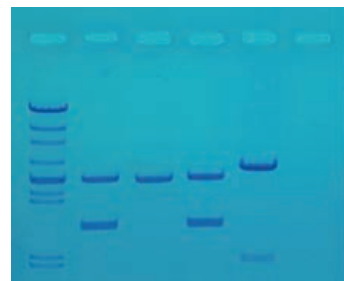
- Forensic DNA fingerprinting has become a universally accepted crime-fighting tool. Recent advances use the Polymerase Chain Reaction (PCR) to amplify human DNA obtained from crime scenes
- Develop a basic understanding of DNA fingerprinting
- Experiment is based on a crime scene scenario and has an inquiry-based component
- Enables varied results depending on the selection of DNA fingerprinting patterns
- Students analyze PCR reactions obtained from different suspects and compare them to a crime scene sample
- Does not contain human DNA

INCLUDES:

Instructions, Ready-to-Load QuickStrip™ DNA Samples, UltraSpec-Agarose™, Electrophoresis Buffer (50X), 10X Gel Loading Solution, FlashBlue™ DNA Stain, InstaStain™ Blue Cards, & Disposable Pipets

REQUIRES:

Horizontal gel electrophoresis apparatus; DC power supply; Automatic micropipets with tips; Balance; Microwave, hot plate or burner; Pipet pump; 250mL flasks or beakers; Hot gloves; Safety goggles and disposable laboratory gloves; Small plastic trays or large weigh boats (for gel destaining); DNA visualization system (white light); Distilled or deionized water

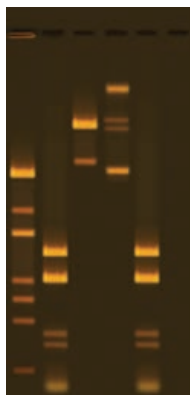


Cat. No.	Description	Price
S94607	DNA Fingerprinting by PCR Amplification	117.00/Ea

Analysis of DNA Methylation using Restriction Enzymes Experiment Kit

Training kit to understand mechanisms of DNA methylation.

- Explores effects of DNA methylation on restriction enzyme activity
- Plasmid DNA will be digested with the restriction enzymes *DpnI* and *DpnII*
- Methylated, unmethylated DNA will produce restriction fragments that are distinct from one another
- Restriction fragments analyzed using agarose gel electrophoresis



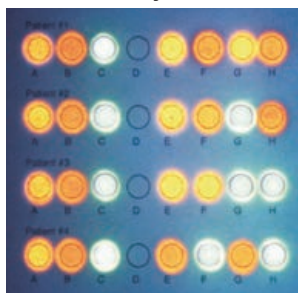
Cat. No.	Description	Price
S42875	Analysis of DNA Methylation using Restriction Enzymes Experiment Kit	140.00/Ea

DNA/RNA Microarrays

Membrane microarray technology enables scientists to screen large numbers of samples in one assay.

Benefit from cost savings by reducing the sample size, while saving time and yielding accurate results.

- Students apply simulated DNA and RNA samples to a membrane to screen for positive and negative samples
- Complete in one hour



ORDERING INFORMATION:
For 10 groups.

INCLUDES:

- Instructions
- Simulated patient DNA and RNA samples and controls
- Microarray cards
- Plastic bags to incubate membrane
- Microtest tubes
- Pipets

REQUIRES:

- Automatic micropipets and tips
- Distilled water
- Beakers or flasks

Cat. No.	Description	Price
S05648	DNA/RNA Microarrays	146.00/Ea

Eisco Genetic Traits Taste Testing Strips

Demonstrate how the ability to taste a certain compound is based on heredity.

Is it sweet, salty, bitter or tasteless?

- Depending on their own genetics, students will experience different tastes from the test strips
- PTC — seven out of 10 students will detect a definite taste; remainder will not
- Sodium benzoate — genetics determine if the paper tastes sweet, salty, bitter or tasteless. If a student can taste PTC, he may not be able to taste thiourea
- Control strips have no PTC, sodium benzoate or thiourea
- Pack of 100



ORDERING INFORMATION:

Each test strip comes in a pack of 100.

Cat. No.	Description	Exercise	Price
S85287A	PTC Paper Taste Strip	Demonstrates the effects of heredity on taste, seven out of 10 students will detect a definite taste, remainder will not	3.60/Pk
S85288A	Sodium Benzoate Paper Taste Strip	Genetics determine if the paper tastes sweet, salty, bitter or tasteless if a student can taste ptc, he may not be able to taste thiourea	3.60/Pk
S85286A	Control Paper Taste Strip	Demonstrates the effects of heredity on taste	3.55/Pk
S85289A	Thiourea Paper Taste Strip	Demonstrates the effects of heredity on taste	3.60/Pk

Electrophoresis

DNA Fingerprinting Electrophoresis Lab Activity Educational Kit

Experiments to perform agarose gel electrophoresis on four DNA samples to determine if DNA from suspects matches that of DNA found at a crime scene. Innovating Science DNA Fingerprinting Electrophoresis Lab Activity Educational Kit, help students to learn about restriction enzymes and importance of these enzymes in DNA fingerprinting process.

- Contains enough materials for 8 groups
- Includes Teacher's Guide and Student Study copymasters



INCLUDES:

200mL Prepared Agarose 0.8% Solution; 500mL Tris-Borate-EDTA Buffer 5X; 60mL DNA Stain; 10µg Crime Scene DNA; 10µg Victim DNA; 10µg Suspect #1 DNA; 10µg Suspect #2 DNA

Cat. No.	Description	Price
S28493	DNA Fingerprinting Electrophoresis Lab Activity Educational Kit	99.00/Ea

DNA Paternity Testing Simulation Kit

This experiment introduces students to the use of DNA fingerprinting in a simulated paternity determination. A child's DNA fingerprint is compared with his parents. The experiment does not contain human DNA.

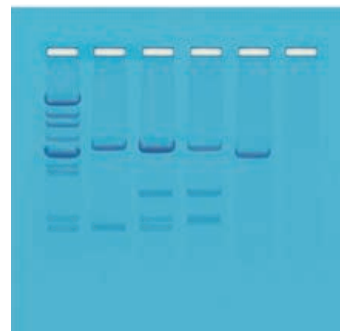
This experiment introduces students to the use of DNA fingerprinting in a hypothetical paternity determination. A child's DNA fingerprint is compared with that of his parents. The experiment does not contain human DNA.

INCLUDES:

- Instructions
- Ready-to-Load QuickStrip™ DNA Samples
- UltraSpec-Agarose™
- Electrophoresis Buffer (50X)
- 10X Gel Loading Solution
- FlashBlue™ DNA Stain
- InstaStain™ Blue Cards
- Disposable Pipets.

REQUIRES:

- Horizontal Gel Electrophoresis apparatus
- Water bath
- Visualization system (white light)
- Micropipets
- Hot-hand protector
- Deionized water
- 250mL beakers
- Hotplate or Bunsen burner
- Photodocumentation system



Cat. No.	Description	Price
S11114	DNA Paternity Testing Simulation Kit	117.00/Ea

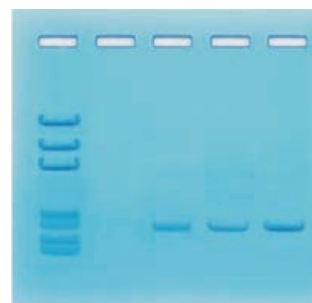
Amplification of DNA by PCR

Easy PCR experiment, students will make billions of copies of a small amount of DNA.

In this easy PCR experiment, students will make billions of copies of a small amount of DNA in just 90 minutes! They will just need to mix template DNA & primers with PCR beads that contain all of the other components required to carry out a PCR reaction. Students will see the increasing amounts of DNA for themselves, taking samples every few cycles and analyzing them on a DNA gel.

INCLUDES:

- Instructions
- PCR EdvoBeads™
- LyphoPrimer™ Mix
- DNA Standard Marker
- Ultra-pure Water
- LyphoTemplate™
- TE Buffer
- UltraSpec-Agarose™
- 50X Electrophoresis Buffer
- 10X Gel Loading Solution
- FlashBlue™ Stain
- InstaStain™ Ethidium Bromide
- Microcentrifuge & PCR Tubes
- Wax Beads



Cat. No.	Description	Price
S11330	Amplification of DNA by PCR	211.00/Ea

Exploring the Genetics of Taste: SNP Analysis of the PTC Gene Using PCR Experiment Kit

To identify the presence of the single nucleotide polymorphism (SNP) in an amplified segment of the PTC gene that links detection of the characteristic taste of PTC paper. Exploring the Genetics of Taste: SNP Analysis of the PTC Gene Using PCR Experiment Kit includes 5 modules.

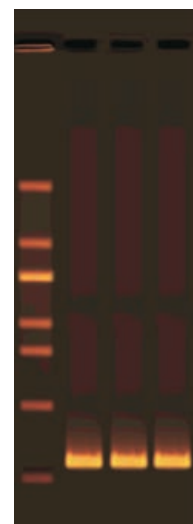
Five Modules Includes:

INCLUDES:

- Extraction of DNA from buccal cells
- Amplifying the segment that contains the polymorphic nucleotide
- Digestion of the amplified fragment with the restriction enzyme that recognizes the SNP
- Analysis by gel electrophoresis
- Tasting the PTC paper to confirm the results obtained
- For 25 reactions
- Complete in 3 hrs. 30 min.
- Level: Advanced
- Requires wet ice shipment for next day delivery
- Instructions
- PCR EdvoBeads™
- Universal DNA Buffer
- TE Buffer, LyphoPrimer™ Mix
- LyphoTemplate™ Control DNA
- Dryzymes™ Restriction Enzyme HaeIII
- Restriction Enzyme Dilution Buffer
- 100 bp Ladder
- Proteinase K
- PTC Paper
- Control Taste Paper
- UltraSpec-Agarose
- Electrophoresis Powder Buffer
- InstaStain™ Ethidium Bromide
- Disposable plastic cups
- 15mL Conical Tube
- Snap-top microcentrifuge tubes
- Microcentrifuge tubes (1.5mL screw-cap)
- 0.2mL PCR tubes
- Wax beads
- Salt packets

REQUIRES:

- Thermal cycler
- Electrophoresis apparatus
- Power supply
- Automatic micropipet
- Microwave or hot plate
- Waterbath
- UV transilluminator.



Cat. No.	Description	Price
S29018	Exploring the Genetics of Taste: SNP Analysis of the PTC Gene Using PCR Experiment Kit	256.00/Ea

Construction and Cloning of DNA Recombinant

To study gene structure, function, and to enhance gene expression.

- It is divided into five modules
- Clones are constructed by ligation of a vector and a fragment insert
- The constructs are then transformed into competent cells and the cells are grown and selected for resistance
- Plasmid DNA is then isolated from the transformants, cleaved with restriction enzymes, and analyzed by agarose gel electrophoresis
- Recommended for college level courses
- For 5 lab groups
- Time: Enzyme digestion 30 min., Gel preparation 30 min., Electrophoresis 45 min., Staining 15 min. and Destaining 20 min.



Unit comprises: Electrophoresis tank and power supply, automatic micropipet with tips, balance, microwave or hot plate, waterbath, large weigh boats for staining, UV transilluminator, floating racks for microtest tubes, pipet pump or bulb, 5 or 10mL pipets, laboratory glassware, metric rulers, distilled water and ice

INCLUDES:

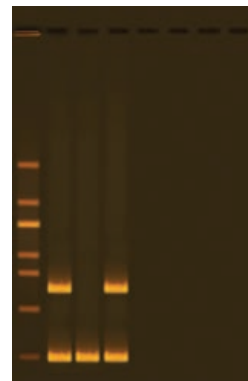
Ultra-pure Water, DNA Fragments for Ligation, T4 DNA Ligase in Reaction Tube, Kanamycin Sulfate, Supercoiled Control DNA Samples, JM109 BactoBeads™, 0.05 M Calcium Chloride, ReadyPour™ LB Agar, Recovery Broth, Growth Medium, Tris-EDTA-Glucose Buffer (TEG), 2M NaOH, 10% SDS, RNase (DNase-free), Tris-EDTA Buffer, Acidified Potassium Acetate, Ultra-pure Water for Restriction Digests, 10X Restriction Enzyme Reaction Buffer, Dryzymes™ Rehydration Buffer, DNA Standard Marker, Supercoiled Plasmid Vector Standard, EcoRI Dryzymes™, PvuII Dryzymes™, XhoI Dryzymes™, InstaStain™ Ethidium Bromide, 10X Gel Loading Solution, 50X Electrophoresis Buffer, UltraSpec-Agarose, Screw Cap Tubes (sterile), Microtest tubes (0.5 ml), petri plates (sterile, 60 × 15mm), 1.5 ml microcentrifuge tubes, sterile inoculating loops/needles, 10ml pipets (sterile), sterile 50mL culture tubes, petri plates (sterile, 100 × 15 mm)

Cat. No.	Description	Price
S11301ND	Construction and Cloning of DNA Recombinant	512.00/Ea

GFP Transformation Extension: Colony PCR Experiment Kit

Determines whether cloning, transformation experiments were successful.

- Colony PCR to analyze bacteria transformed with pFluoroGreen
- Single colony used as DNA template for PCR
- Resulting PCR sample analyzed using agarose gel electrophoresis
- Used in conjunction Edvotek Transformation Kits (S68653, S42874, or S05657)



INCLUDES:

Instructions, PCR EdvoBeads™, Colony Primer Mix Concentrate, Control DNA Concentrate, Ampicillin, IPTG, EdvoQuick™ DNA Ladder, TE Buffer, BactoBeads™, ReadyPour™ Luria Broth Agar, Petri Dishes, ampicillin, IPTG, ReadyPour™ Luria Broth Agar (sterile), UltraSpec-Agarose™, Electrophoresis Buffer (50X), 10X Gel Loading Solution, InstaStain™ Ethidium Bromide, FlashBlue™ Liquid Stain, Petri Plates, Sterile Loops, Microcentrifuge & PCR Tubes & Wax Beads.

Cat. No.	Description	Price
S42874	GFP Transformation Extension: Colony PCR Experiment Kit	196.00/Ea

Principles and Practice of Agarose Gel Electrophoresis

Introduce basic concepts and procedures of agarose gel electrophoresis with this complete experiment.

Demonstrate to your class how electrophoresis separates molecules on the basis of size and charge. A safe, colorful, fast and simple way to teach a technique that will engage your students.



INCLUDES:

- Instructions
- Ready-to-Load QuickStrip™ Dye Samples
- UltraSpec-Agarose™
- Electrophoresis Buffer (50X)
- Practice Gel Loading Solution
- Disposable Pipets.

REQUIRES:

- Horizontal gel electrophoresis apparatus
- DC power supply
- Visualization system (white light)
- Pipet pump and hotplate
- 250mL Flasks
- Distilled or deionized water

Cat. No.	Description	Price
S11101	Principles and Practice - Agarose Gel	80.00/Ea



HEADLINE DISCOVERIES
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MV10 Protein Electrophoresis Apparatus

Seamless vertical electrophoresis unit is designed for separation of proteins on a single polyacrylamide gel.

Re-designed MV10 vertical protein electrophoresis unit capable of holding one vertical polyacrylamide gel, the unit has color coded parts to ensure proper orientation.



- Gel support cassette clip - holds gel securely, allows for easy placement and removal of gel
- New, sleek design
- Domed lid with sturdy overmold grip feature
- Modified shapes improves gel running speed by 10-15%
- Stabilizing feet - raises unit off bench to promote cooling and improves stabilization
- Placement of color-coded anode/cathode sides completely eliminates the chance of improper or reverse lid placement
- Electrode lead 90° right angle shape improves stability by lowering the overall profile and thus minimizes tipping
- Patent pending

INCLUDES:

- Seamless injection-molded base
- Safety interlock cover
- Corrosion-resistant, all-platinum electrodes with safety-insulated leads

WARRANTY:

Manufacturer's limited lifetime warranty and free technical support.

Cat. No.	Description	Price
S90257ND	MV10 Protein Electrophoresis Apparatus	315.00/Ea

M12 Complete™ Electrophoresis Package

Student-friendly horizontal electrophoresis apparatus for DNA, dye, and protein agarose gels. Includes trays, combs, and end caps.

Run the full spectrum of horizontal electrophoresis experiments with this versatile package! The reimagined M12 Complete™ supports one or two student groups in two standard length gel trays for experiments that require less separation, or one long gel tray for experiments that require more. Produces excellent results in 30-40 minutes and includes a lifetime warranty.



INCLUDES:

(2) 7 × 7 cm Gel Trays, (1) 7 × 14 cm Gel Tray, (2) 6 Tooth Combs, (2) 8/10 Tooth Combs, (4) Rubber End Caps

Cat. No.	Description	Price
S90242ND	M12 Dual Horizontal Electrophoresis Package	256.00/Ea

fisherbrand FB300 Power Supply

Stackable, solid, compact power source.

- Versatile, compact FB300 runs up to three gels at once at either constant current or constant voltage
- Integral timer and auto shutoff prevents fear of losing valuable information
- No-slip feet anchor provides safe operation
- Ideal for mini SDS-PAGE, DGGE/CDGE and DNA/RNA submarine electrophoresis
- Maximum voltage: 300V
- Maximum current: 400mA
- Maximum power: 75w
- Three jacks
- Internal timer: 0 to 999 minutes



Cat. No.	Description	Price
S65533Q	For mini SDS-PAGE, DGGE/CDGE, DNA/RNA Electrophoresis	772.00/Ea

Thermo Scientific™ Owl™ Separation B1A EasyCast™ Mini Gel Electrophoresis System

Designed to provide flat, even banding patterns and consistent results with less hassle.

The perfect size to determine molecular weight ranges of PCR fragments or larger-sized DNA molecules.

- Enables casting and running a gel in the buffer chamber
- Run 5 to 24 samples in 15 minutes
- The two comb slots on the UV Transmissible (UVT) gel tray double sample capacity by doubling the number of sample wells
- Heavy-duty, one-piece combs eliminate comb assembly
- UVT gel trays are silk screened with a fluorescent ruler for easy measurement of bands
- 8L × 7cmW (3.1 × 2.8 in.) gel size
- 16L × 10.5W × 9.5cmH (6.3 × 4.1 × 3.7 in.) footprint
- 400mL running buffer volume



Cat. No.	Description	Price
S98630	B1A EasyCast mini gel electrophoresis system	566.00/Ea

DuoSource™ 150 Power Supply

DuoSource 150 power supply is designed to power any combination of horizontal or vertical electrophoresis units.

- Safety features included a fused UL-approved, three-pronged power plug and non-conductive casing
- Equipped with an easy-to-replace 1 Amp slow burn fuse
- Delivers direct current, constant voltage at settings of 75 and 150V
- Maximum current is 300mA



Cat. No.	Description	Price
S11509E	DuoSource™150 Power Supply	218.00/Ea

QuadraSource™ Power Supply

Power a combination of electrophoresis units with this 650mA power supply.

Run experiments in the least time possible with this powerful, versatile unit.

- Easy-to-use, fully programmable interface for setting voltage, current or timer control with each parameter displayed in real time
- Programs may be paused or resumed at any point



ORDERING INFORMATION:

10 to 300V for one to four units; maximum: 750mA.

Cat. No.	Description	Price
S05704	QuadraSource™ Power Supply	509.00/Ea

White Light Box

Safely enhance the visualization of DNA stained with FlashBlue™, proteins stained with Coomassie Blue and autoradiograms with the White Light Box.

- Features a spacious 25 × 25cm (9.94 × 9.84 in.) viewing area
- Illuminated by long life LEDs
- Housed in a slim aluminum body
- Does not include an amber gel viewing filter
- Power Rating: 8 Watts
- Power Supply: uses external 110V power brick



Cat. No.	Description	Price
S11552	White Light Box	199.00/Ea

TruBlu™ Blue Light Transilluminator

For viewing DNA gels stained with SYBR™ Safe eliminating the need for UV light or ethidium bromide. TruBlu Blue Light Transilluminator is optimized to fit Edvotek Gels and the high intensity control and orange lid ensure superior visualization.

- Developed in concert with the inventor of the technology under license from Clare Chemical Research, Inc
- Viewing Area: 14.5cm × 18 cm
- Optimized for Edvotek Gels
- Blue Light High Intensity Control
- Orange Contrast Lid
- Vivid results



- US Patent Nos. 6,198,107, 6,512,236, 6,914,250
- EP Patent No. 0 965 034
- Made in USA

Cat. No.	Description	Price
S42878	TruBlu Blue Light Transilluminator	362.00/Ea

Long Wave UV Mini-Lights

Used to detect hydrolysis of fluorescent substrate.

- Hand-held
- Also detects fluorescent *Artemia* and *Daphnia* after their ingestion
- Can also be used for observing fluorescence in Green (gfp) and Blue (bfp) fluorescent proteins



Cat. No.	Description	Price
S95133	Long Wave UV Mini-Lights	56.00/Ea

Classroom PCR Discovery LabStation™

A versatile package suited to run the full spectrum of horizontal electrophoresis experiments. For up to 1 to 2 lab groups

Includes the following:

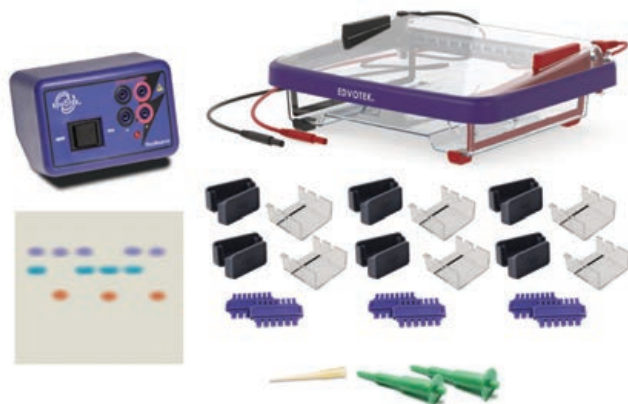
- 6 × S90242ND M12 Complete™ Package (7 × 14 cm Tray & 7 × 7 cm Trays (2))
- 3 × S11509E DuoSource™ 150 (75/150V, for 1 or 2 units)
- 6 × S90243D Variable Micropipette (5 to 50 µL)
- 2 × S05661 Piccolo Microcentrifuge
- 1 × NC1863713 EdvoCycler™ 2 (48 × 0.2 mL)
- 1 × S42878 TruBlu™ Blue Light Transilluminator (14.5 × 18 cm viewing surface)
- 1 × S37220 1.8 L Water Bath



Cat. No.	Description	Price
S72164	Classroom PCR Discovery LabStation™	4987.00/Ea

Classroom DNA Discovery LabStation™

Newly reengineered M36 Electrophoresis Apparatus features the latest in electrophoresis design and supports up to six groups of students.



Includes the following:

- 1 × S11515A M36 HexaGel Electrophoresis Apparatus (7 × 7cm Trays (6))
- 1 × Cat. S68298 DuoSource™ 75 Power Supply
- 2 × Cat. #588 Fixed Volume MiniPipette™ 40 µL
- 1 × Cat. #636-1 Yellow Micropipet Tips 1 to 200 µL (1 Rack of 96 Tips)
- 1 × Cat. S94591 Whose DNA Was Left Behind

Cat. No.	Description	Price
S72163	Classroom DNA Discovery LabStation™	499.00/Ea

Reagents for Electrophoresis

Cat. No.	Description	Price
S11601	Melt and Pour 0.8% UltraSpec-Agarose; 400mL	35.50/Ea
S11601B	Melt and Pour 0.8% UltraSpec-Agarose; 5 × 400mL	133.00/Ea
S11605	UltraSpec-Agarose; DNA Electrophoresis Grade, 20g	63.00/Ea
S11605B	UltraSpec-Agarose; DNA Electrophoresis Grade, 100g	201.00/Ea
S11607	Electrophoresis Buffer, 50X TAE (tris-acetate-EDTA), For 50L	39.00/Ea
S11609	FlashBlue™ Plus DNA Staining System; For 3L	46.00/Ea
S05678	SYBR™ Safe DNA Stain; 100µL dilutes to 750mL	196.00/Ea



Ultimate Biotechnology LabStation™

This extensive LabStation™ supports up to 32 students and offers a well-rounded introduction to the exciting field of biotechnology.



Includes the following:

- 1 × S68640 EdvoCycler™ 2 (48 × 0.2mL)
- 8 × S90242ND M12 Complete™ Electrophoresis Package (7 × 14cm Tray™ 7 × 7cm Trays (2))
- 4 × S90257ND MV10 Protein Electrophoresis Apparatus
- 4 × S05704 TetraSource™ 300 Power Supply (30-300 V for 1 or 4 units)
- 8 × S90243B Variable Micropipet (0.5 to 10 µL)
- 8 × S90243E Variable Micropipet (10 to 100 µL)
- 8 × S90243H Variable Micropipet (100 to 1000 µL)
- 1 × Cat. #594 EdvoPette™ Pipet Controller
- 1 × S29007 EdvoFoto™ Digital GelCam
- 1 × S11552 White Light Box
- 1 × S42878 TruBlu™ Blue Light Transilluminator
- 1 × S97812 Midrange UV Transilluminator
- 10 × S95133 Long Wave UV Mini-Light
- 4 × S37220 1.8 L Digital Water Bath
- 1 × S05876 10 L Digital Shaking Water Bath
- 4 × Cat. #5023 Tornado Vortexer™
- 3 × Cat. #533 Mezzo™ Microcentrifuge
- 2 × Cat. #546 Incubation Oven
- 8 × S94649 6 Tooth Comb
- 8 × S94650 E-Z Align™ Tray 7 × 7cm
- 4 × S94651 E-Z Align™ Tray 7 × 14cm
- 4 × S29019 Rubber End Caps (Set of 2)
- 8 × S06687 Ultra Micropipet Tips (0.1 to 10 µL / 2 Racks of 96)
- 16 × S06689 Yellow Micropipet Tips (1 to 200 µL / 2 Racks of 96)
- 8 × S06691 Blue Micropipet Tips (200 to 1000 µL / 2 Racks of 100)
- 8 × S06694 Fine Tip Micropipet Tips (1 to 200 µL / 1 Rack of 204)

Cat. No.	Description	Price
S39358	Ultimate Biotechnology LabStation™	19999.00/Ea

Solutions to Take You Further, Faster

Shop products designed to help ensure reliable results through efficient research.

Description	Quantity	Cat. No.
Antibodies & Purification		
Invitrogen™ Molecular Probes™ Image-iT™ Fixation/Permeabilization Kit	Each	R37602
Invitrogen™ ActinGreen™ 488 ReadyProbes™ Reagent (AlexaFluor™ 488 Phalloidin)	Each	R37110
Invitrogen™ ActinRed™ 555 ReadyProbes™ Reagent (Rhodamine Phalloidin)	Each	R37112
Bacterial Culture		
Invitrogen™ Luria Broth Base, Powder	500 g	12-795-027
Gibco™ LB Broth	500 mL	10-855-021
Gibco™ Terrific Broth	1 L	A1374301
Invitrogen™ Select Agar™, Powder	500 g	30-391-023
Invitrogen™ Library Efficiency™ DH5α Competent Cells	Each	18-263-012
Invitrogen™ LB Broth Base; 500 g	40 Reactions	12-780-052
Cell Counting		
Invitrogen™ Countess™ Reusable Slide	Each	A25750
Invitrogen™ Chamber Slides for Countess™ Cell Counter	50 Slides	C10228
Gibco™ Trypan Blue Solution, 0.4%	100 mL	15-250-061
Cell Culture Media and Additives		
Invitrogen™ UltraPure™ DNase/RNase-Free Distilled Water	500 mL	10-977-015
Gibco™ DMEM, High Glucose	500 mL	11-965-092
Gibco™ RPMI 1640 Medium	500 mL	11-875-093
Gibco™ Neurobasal™-A Medium	500 mL	10-888-022
Gibco™ B-27™ Supplement (50X), Minus Vitamin A	10 mL	12-587-010
Gibco™ GlutaMAX™ Supplement	100 mL	35-050-061
Gibco™ Antibiotic-Antimycotic (100X)	100 mL	15-240-062
Gibco™ Trypsin-EDTA (0.5%), No Phenol Red	100 mL	15-400-054
Gibco™ Recovery™ Cell Culture Freezing Medium	50 mL	12-648-010
Gibco™ PBS Solution, 1X, pH 7.4	500 mL	10-010-023
Gibco™ Penicillin-Streptomycin (10,000 U/mL)	100 mL	15-140-122
Electrophoresis and Stains		
Invitrogen™ E-Gel™ Power Snap Electrophoresis System Starter Kit, SYBR Safe 1.2%	Each	G8351ST
Invitrogen™ UltraPure™ Agarose	100 g	16-500-100
Invitrogen™ NuPAGE™ 4 to 12%, Bis-Tris, 1.0 mm, Mini Protein Gel, 10-Well	10/Pack	NP0321BOX
Applied Biosystems™ PowerUp™ SYBR™ Green Master Mix	5 mL	A25742
Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder	500 µL	10-488-085
Invitrogen™ Safe Imager™ 2.0 Blue-Light Transilluminator	Each	G6600
Invitrogen™ Safe Imager™ Viewing Glasses	Each	S37103
Invitrogen 1 Kb Plus DNA Ladder, 100 to 1,500 bp	500 Applications	10-787-018
Invitrogen E-Gel Power Snap Electrophoresis Device	Each	G8100
Invitrogen™ SYBR™ Safe™ DNA Gel Stain	400 µL	S33102
PCR		
Applied Biosystems™ ProFlex™ PCR System, 3 x 32-Well	Each	4484073
Transfection		
Invitrogen™ Lipofectamine 3000 Transfection Reagent	0.1 mL	L3000001



Visit fisheredu.com or contact your Fisher Science Education sales representative to access our full selection of products.

Immunology

Lab-Aids™ Immunology and Evolution Experiment

Determine evolutionary closeness of organisms based on antigen - antibody blood analysis. Identify various animals in relation to mankind.



The focus of this highly motivating kit is on determining the evolutionary closeness of organisms based on antigen-antibody blood analysis. Why this topic is so fascinating? Because it is a basis for discussion about a very controversial topic: The Theory of Evolution. Immunological comparison (homology) is probably the most fascinating of the five methods used to classify organisms. Using synthetic blood serum, students have the opportunity to see textbook theory come alive in a dramatic lab exercise. As the students observe the immunological differences, they identify various animals' relationships to humans.

With this kit, students learn first-hand about relationships among organisms, common ancestry, even the identification of blood from unknown sources and techniques of blood immunology. Accommodates 2 classes, each with 12 groups of 2 students.

INCLUDES:

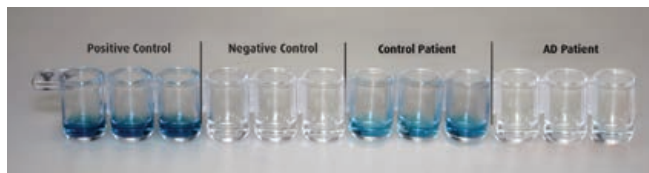
- 12 Chemplates with spatula
- Three each of drop-controlled bottles of synthetic rabbit blood serum and synthetic human blood serum
- Two each of drop-controlled bottles of blood serum test I, II, III, IV, and V
- 30 Student guides
- 1 Teacher's guide with SDS

Cat. No.	Description	Price
S19412	Immunology and Evolution Experiments	92.00/Ea

Researching Alzheimer's Disease by ELISA Kit



Students will become neuroscientists searching for Alzheimer's Disease biomarkers. Explores potential biomarkers by analyzing simulated patient samples from control and Alzheimer's Disease populations.



- Storage: Some Components Require Refrigerator Storage
- Completion Time: 1 Class Period
- For 10 Lab Groups

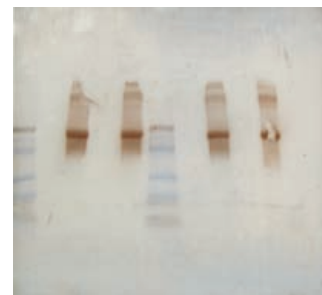
Cat. No.	Description	Price
S27563	Researching Alzheimer's Disease by ELISA Kit	119.00/Ea

Detecting Risk Factors for Alzheimer's Disease Using Western Blot Kit



Helps students to understand the theory and application of western blotting. Students will perform a western blot to determine simulated clinical trial participants' risk of developing Alzheimer's Disease.

- Storage: Some Components Require Refrigerator Storage
- For 6 Lab Groups, with 2 groups sharing a gel

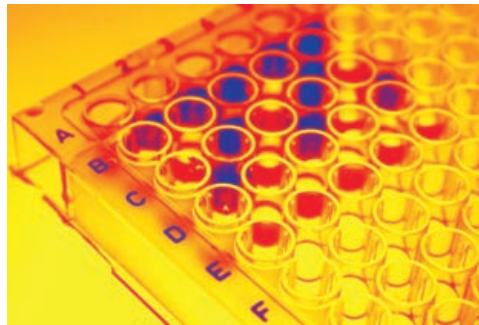


Cat. No.	Description	Price
S27562	Detecting Risk Factors for Alzheimer's Disease Using Western Blot Kit	239.00/Ea

Immunotag™ ELISA Kits

Competitive ELISA Kits for the detection of Human or Mouse HCY.

The Immunotag™ Human HCY (Homocysteine) ELISA is based on a sandwich enzyme-linked immunosorbent assay (ELISA) technology. A 96-well plate is coated with a specific antibody against the protein of interest (HCY). During the reaction, HCY in the sample or standard competes with a fixed amount of HCY on the plate for sites on the Biotinylated Detection Antibody specific to HCY, which will bind the protein and this is detected by a biotin conjugated antibody against the protein of interest. The biotin moiety is subsequently detected, following washing, by the addition of streptavidin coupled horseradish peroxidase (HRP). The supplied TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is directly proportional to the concentration of protein of interest captured on the plate.



Quality Assurance: Due to their limited shelf life, the ImmunoTag™ ELISA kits are not typically stocked as finished goods. Please allow 2-3 weeks for delivery. Upon receipt of an order each kit is assembled and tested to ensure that it meets specifications before shipping. Minor changes may occur to the Range, Sensitivity, and Precision and is reflected in the manual supplied with the kit (online manuals are for reference only). In the event of a significant change the order would be confirmed with the customer before shipping

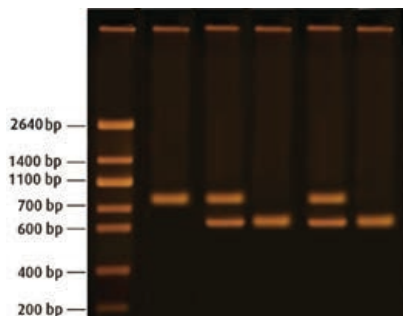
Cat. No.	Description	Price
501485730	Human HCY (Homocysteine) ELISA Kit	547.00/Ea
501487348	Mouse MT (Melatonin) ELISA Kit	547.00/Ea

PCR, CRISPR, Bioengineering

Diagnosing Huntington's Using PCR



Students will conduct a DNA fingerprinting exercise on simulated patient samples to determine if family members are heterozygous or homozygous for Huntington's Disease. Amplified DNA segments are then analyzed by agarose gel electrophoresis.



- Storage: Some Components Require Freezer Storage
- Sufficient for 5 complete sets of reactions

Cat. No.	Description	Price
S27564	Diagnosing Huntington's Using PCR	175.00/Ea

EdvoCycler™ Jr.

EdvoCycler™ Jr. offers superior performance and ease-of-use in a sleek form factor with a vivid touchscreen display.

- Easy to use and program
- Holds 16 × 0.2 ml PCR Samples and 8-Tube Strip Compatible
- 7 inch HD Color Touchscreen Displays Real-Time Cycling Data
- Edvotek PCR Programs Included + Storage for 100 More
- Standalone Machine - No PC or Smartphone Required
- High Precision Algorithm Yields Superior Results
- Heated Lid Prevents Sample Evaporation
- Active Cooling to 4°C
- Instant Incubate Function
- Temperature Range: 4 to 99°C
- Maximum Ramp Rate: 4°C
- 2 Year Warranty
- Made in USA



Cat. No.	Description	Price
S72162	EdvoCycler™ Jr.	672.00/Ea

CRISPR 3-D Model Kit



Assemble and use 3-D models to visualize and investigate key science structures.

- Gain a critical understanding of complex structures & processes through the assembly of 3-dimensional models
- Kit includes enough materials for students to assemble up to 10 paper models by working either independently or cooperatively in small groups
- Also includes comprehensive Teacher Resource Guide outlining opportunities for your students to Engage, Explore, Explain, Extend & Evaluate their understanding of key Scientific concepts
- Satisfies NGSS Standards which encourage students to develop & use models to represent structures, systems & processes, then provide explanations, make predictions or investigate solutions
- Perfect for use in the classroom, lab or at home



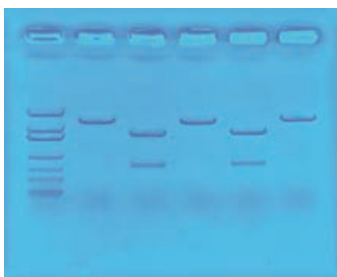
Cat. No.	Description	Price
S81449	CRISPR 3-D Model Kit	30.00/Ea

Using CRISPR to Treat Cystic Fibrosis Kit



Simulate the use of CRISPR-Cas9 to target a genetic mutation found in a patient suffering from Cystic Fibrosis. Students will develop an understanding of guide RNA (gRNA) design, and use agarose gel electrophoresis to examine pre-prepared DNA samples after CRISPR treatment.

- Storage: Room Temperature Stable
- Refrigerator Storage of Ready-to-Load QuickStrip™ samples is recommended
- Suitable for 8 Gels
- Expected Time: 45 minutes



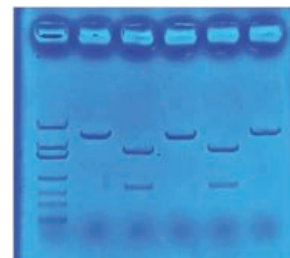
Cat. No.	Description	Price
S27552	Using CRISPR to Treat Cystic Fibrosis Kit	113.00/Ea

A-maize-ing Editing: Using CRISPR to Improve Crops Kit



Students will assume the role of plant geneticists working to develop corn crops capable of thriving in a changing environment. This experiment will allow students to develop an understanding of CRISPR-Cas9 applications, cleave DNA, and examine results after gel electrophoresis.

- Some Components Require Freezer Storage Upon Receipt
- Sufficient for 8 Gels
- Time Range: 80 min. to 105 min.



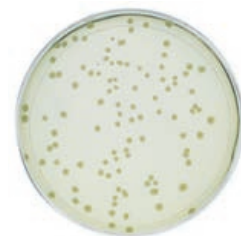
Cat. No.	Description	Price
S27553	Using CRISPR to Improve Crops Kit	140.00/Ea

Hack the Planet: Using CRISPR to Terraform Mars Kit



Simulate the use of CRISPR-Cas9 to modify bacterial DNA, which will then be transformed into auxotrophic E. coli that are incapable of surviving on the Martian surface. Only bacteria that receive the successfully edited DNA can survive, thrive, and help to terraform Mars!

- Storage: Some Components Require Freezer Storage Upon Receipt
- Time Range: Three 1 hr. Modules
- For 5 Groups



Cat. No.	Description	Price
S27554	Using CRISPR to Terraform Mars Kit	199.00/Ea

Pipetting By Numbers: STEAM Pipetting Practice Kit



Helps students master the fundamental biotechnology technique of micropipetting while creating a colorful, science-themed classroom poster with their own artwork

- Storage: Room Temperature
- Completion Time: 45 Minutes
- For 10 Lab Groups



Cat. No.	Description	Price
S27559	STEAM Pipetting Practice Kit	72.00/Ea

CAREER TECHNICAL EDUCATION
A HEAD START ON STEM CAREERS

Visit fisheredu.com/nursingcte for a full list of products to support your nursing, med tech and other CTE Programs.

DNA Fingerprinting Using Restriction Enzymes

Students will learn the basic structures and pathway of the digestive system, understand the functions of the stomach and small intestine in regards to digestion, and investigate how the properties of different enteric coatings react in different sections of the digestive system.

- Students explore the purpose of an enteric coating and engineer a simulated coating most suitable for certain pharmaceutical needs.
- Materials for 15 groups
- Includes Teacher's manual and student guide
- Aligned to the Next Generation Science Standards (NGSS)
- Disciplinary Core Ideas: ETS1.A; ETS1.B; LS1.A; ETS1.C
- Performance Expectations: MS-LS1-3; MS-LS1-7; MS-ETS1-1; MS-ETS1-2; MS-ETS1-3; MS-ETS1-4; HS-LS1-2; HS-ETS1-2
- Cross Cutting Concepts: Energy and Matter; Influence of Science, Engineering and Technology on Society and the Natural World; Systems and System Models

- Engineering Practices: Developing and Using Models; Asking Questions and
- Defining Problems; Analyzing and Interpreting Data; Engaging in Argument From Evidence; Constructing Explanations and Designing Solutions

⚠️ ALERTS:

WARNING: This product can expose you to chemicals including Acetyl Salicylic Acid/Aspirin, which is known to the State of California to cause birth defects and reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Cat. No.	Description	Price
S40764	DNA Fingerprinting Using Restriction Enzymes	49.50/Ea

Engineering a Drug Delivery System Kit

Innovating Science™ Engineering a Drug Delivery System Kit teaches students about the importance of drug delivery by testing simulated delivery systems in environments that mimic different parts of the body.



- Biomedical engineers design devices, equipment, and processes to improve medical treatment methods, the quality of human health, and life
- They apply engineering principles to biology and medicine to create products such as prosthetic limbs and artificial organs, among others
- One major focus of biomedical engineers is the design of drug delivery systems, which can control the transport and release of medicine in the body to more effectively treat diseases and illnesses
- In this experiment, students will gain an understanding of drug delivery and its importance by testing simulated delivery systems in multiple environments that mimic different parts of the body

- The delivery systems will be analyzed and compared, allowing students to engineer an optimal solution
- Students will learn what properties must be considered when designing new drug delivery systems
- This lab has enough materials for 15 lab groups
- Teacher's manual and student guide are included



Cat. No.	Description	Price
S27126	Engineering a Drug Delivery System Kit	66.50/Ea

* California - WARNING: Cancer www.P65Warnings.ca.gov
 ** California - WARNING: Reproductive Harm www.P65Warnings.ca.gov
 *** California - WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Engineer and Explore Materials for Prosthetics Kit



Engineer and Explore Materials for Prosthetics Kit investigates materials that biomedical engineers use when creating prosthetic devices. Students identify the physical properties of various metals, ceramics, and polymers to determine which are most suitable for use.

- In this lab, students will explore the materials that biomedical engineers use when creating prosthetic devices
- They will first investigate the physical properties of various metals, ceramics, and polymers to understand how they differ
- Then, they will determine which materials would be most suitable for use in a hip replacement prosthetic
- Students will then engineer their own prosthetic arm that meets certain design requirements and mimics the functionality of a real hand
- Kit contains enough materials for 15 groups
- Teacher's Manual and Student Study Guide copy masters are included

⚠️ ALERTS:
WARNING: CHOKING HAZARD, Children under 8 yrs. can choke or suffocate on uninflated or broken balloons. Adult supervision required. Keep uninflated balloons from children. Discard broken balloons at once.

DISCLAIMERS:

WARNING: This product can expose you to chemicals including Phthalates, which is known to the State of California to cause reproductive harm. For more information go to www.P65Warnings.ca.gov.



Cat. No.	Description	Price
S27127	Engineer and Explore Materials for Prosthetics Kit	327.00/Ea

Biomaterials To Make Your Own Contact Lenses

Engineers play an integral role in finding a ratio of materials to maximize the desired properties and decrease the negative effects of other properties. Students will engineer a lens using 2 different materials

- Determine the correct material and the concentration that has similar properties as a contact lens, while discovering the correct optical properties, tensile strength and hydrophobicity.
- A hydrogel is a polymer like plastic, which has favorable optical properties and favorable flexibility/strength but like paper and glasses/ceramics is hydrophilic, which is necessary for a contact lens to function properly.
- Aligned to the Next Generation Science Standards (NGSS)
- Disciplinary Core Ideas: ETS1.A; ETS1.B; ETS1.C; PS1.A
- Performance Expectations: MS-ETS1-1; MS-ETS1-3; MS-ETS1-4; HS-PS1-3; HS-ETS1-2
- Cross Cutting Concepts: Influence of Science, Engineering and Technology on Society and the Natural World; Patterns
- Engineering Practices: Asking Questions and Defining Problems; Analyzing and
- Interpreting Data; Constructing Explanations and Designing Solutions; Planning and Carrying Out Investigations
- Size: 12.12 × 9.25 × 6.5 in. (L × W × H)



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Cat. No.	Description	Price
S40765	Contact Lenses	60.50/Ea



* California - WARNING: Cancer www.P65Warnings.ca.gov

** California - WARNING: Reproductive Harm www.P65Warnings.ca.gov

*** California - WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

STEM Investigations: Design a Biodegradable Plastic Kit



Stem Investigations: Design a Biodegradable Plastic Kit looks at engineers who are developing bioplastics that break down quickly, and produce less harmful byproducts. In this lab, students make samples of bioplastics to study how composition affects physical properties.

- Hundreds of millions of tons of plastic are produced each year and used for a variety of products, from packaging to automobiles
- The majority of these products are disposable items, leading to excessive amounts of plastic being discarded into landfills and the oceans
- Due to the major threat this poses to the environment, scientists and engineers are developing bioplastics that break down more quickly, and produce less harmful byproducts than traditional plastics
- In this activity, students will make samples of different bioplastics to study how composition affects their physical properties
- They will then use what they have learned to create a bioplastic that could be used to replace PET plastic in disposable water bottles
- Additionally, students will design an experiment to compare the biodegradability of their bioplastic samples to a traditional plastic
- Kit contains enough materials for 15 groups
- Teacher's Manual and Student Study Guide copy masters are included



Cat. No.	Description	Price
S27128	Design a Biodegradable Plastic Kit	96.00/Ea

Lab-Aids™ Organically Grown? Testing for Simulated Pesticide Residue



Chemical test designed to determine whether fruit samples have been treated for any simulated pesticides.

In this investigation, students will use a chemical test in order to determine whether fruit samples have been treated for any simulated pesticides. Based on their test results they grapple with the further question of which sample(s) could potentially be marketed as organic. Accommodates one class with 8 groups of 4 students.

Science Concepts:

- Pesticides, chemicals used to control insects and other pest organisms, are used in production agriculture.
- All pesticides must be approved by the USDA.
- Low levels of pesticide can be detected using chemical tests
- Organic production uses several classes of pesticides approved by the USDA

INCLUDES:

- 75 pieces of dried apple
- 80 small plastic tasting cups
- 8 stir sticks
- 4 dropper bottles of "Pesticide" 1 indicator
- 4 dropper bottles of "Pesticide" 2 indicator
- 4 dropper bottles of "Pesticide" 3 indicator
- 1 60mL bottle of "Pesticide" Solution A
- 1 60mL bottle of "Pesticide" Solution B
- 1 60mL bottle of "Pesticide" Solution C
- 32 Student Guides
- 1 Teacher's Guide
- 1 SDS (Safety Data Sheet) packet



Cat. No.	Description	Price
S27119	Testing for Simulated Pesticide Residue	150.00/Ea

A

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