

Standards below are based on  
2018 Mississippi College-and-Career Readiness Standards for Science

## **TVA Science Kids—World Water Monitoring 5<sup>th</sup> Grade Corresponding Standards-Mississippi**

### **Ecology and Interdependence**

L.5.3A photosynthesis and transfer of energy from the sun through food chain

L.5.3B Understanding a healthy ecosystem with a stable web of life: producers, consumers, types of ecosystems

### **Organization of Matter and Chemical Interactions**

P.5.5B Mixtures of Solutions: observing chemical reactions

### **Earth's Resources**

E.5.10 The effects of human interaction with Earth and how Earth's natural resources can be protected and conserved

## **Extended Resources**

### **Monitorwater.org**

- **Map** - reading the map; land features that may affect water quality
- **Lesson Plans** - designed for grades 6-8
- **Books** - ELA component: pdf versions online; could be used before or after the program; vocabulary and questions at the end
- **Video Tutorials/Kit instructions**
- **Cabinet of Curiosities** - interviews with various scientists may inspire possible future careers in STEM

### **In-person Logistics**

- 70 minute session preferred; two 30 minute sessions also possible

- Self-contained classrooms?
- Info needed:
  - Get teacher names and email addresses
  - Dates for each school: Tuesday-Friday scheduling, prefer to do all schools at one time
  - Number of sessions needed for each school
  - Number of students in each class
  - Will send presentation and room setup info the day before the program
- Would selected body of water be recognizable to students?

### **Virtual Logistics**

- 9 videos (5-7 minutes each); can conduct lab as class time allows
- Options for group work or individual work
- Teacher packet
  - Teacher Prep document
  - Test directions document
  - Virtual Lesson Guide
  - Water collection instructions
  - Data sheet
- Info needed:
  - Teacher names and emails
  - Number of classes/number of students
  - Internet connectivity/capabilities
- Teacher feedback form