

3rd and 4th Grade Outreach Programs

Maximum class size: 30 students per presentation

Third Grade:

Let's Get Energized!

Where does energy come from? The sun provides heat and light energy. Some sun energy is stored in plants that are eaten by animals. Why are coal, oil and natural gas called "fossil" fuels? Explore renewable energy sources: solar, wind, and water.

Resources SOLs: 3.11

Presentation Requirements: Must remain in one room for all presentations, display table, 4 station tables, electrical outlets.

Simple Machines

What do hinges, faucets, doorknobs and fishing poles have in common with bathtubs and brooms? All are examples of simple machines. Explore how machines help us to do work with less effort.

Forces, Motion, and Energy SOLs: 3.2

Presentation Requirements: Remain in one room for all presentations, display table, 4 station tables.

The Many Links of a Food Chain

Adaptations help an organism to survive in its environment. What clues can you find in an animal's skull that would reveal its eating habits? Explore different habitats and their respective food chains.

Life Processes, Living Systems SOLs: 3.4, 3.5, 3.6

Presentation Requirements: Must remain in one room for all presentations, display table, 4 station tables.

What Makes Soil?

Add worms and mushrooms, dead animals and plants, broken bits of rock; put it all together and what do you get? The result can be sand, silt, clay or humus. Observe some of these components under magnification. Learn the difference between mechanical and chemical ways to create soil. Why should people conserve this natural resource?

Matter, Earth/Space Systems SOLs: 3.3, 3.7

Presentation Requirements: Must remain in one room for all presentations, display table, 4 station tables, water source.

Fourth Grade:

It's Electric!

How does electricity travel from its source to our homes and schools? Is it better to construct a building with series or parallel circuits? Experiment with wires, bulbs, batteries and switches to find out!

Force, Motion and Energy SOLs 4.3

Presentation Requirements: Remain in one room for all presentations, display table, students seated at desks or tables in 4 groups.

Plant Safari

Take a trip through the fascinating life of a plant! What energy process sets plants apart from animals? Many plants develop similar structures that perform the same functions, but with plants there is an exception to almost every rule! Investigate the vast biological diversity of the plant world.

Life Processes, Living Systems SOLs: 4.4

Presentation Requirements: Must remain in one room for all presentations, display table, 4 station tables.

Virginia: From the Mountains to the Bay

Discover your watershed address as you follow Virginia's streams and rivers from their mountain headwaters. Do all of them flow into the Chesapeake Bay? Explore the diversity of plants and animals found in different habitats including freshwater highlands and the salty shoreline. You'll be amazed at the variety of products that come from Virginia's natural resources as you learn their location.

Resources SOLs: 4.8

Presentation Requirements: Must remain in one room for all presentations, display table, 4 station tables.

Weather or Not?

Anemometer, barometer, hygrometer, rain gauge and thermometer—we supply all you need to forecast the weather and help you do it! Learn how to use temperature, air pressure, and cloud type to make your prediction.

Scientific Investigation, Earth/Space Systems SOLs: 4.1, 4.6

Presentation Requirements: Remain in one room for all presentations, display table, students seated at desks or tables in 4 groups, water source.