

Labs

Our Outreach Labs consist of hands-on interactive programs designed to engage and motivate students to explore science concepts, ask questions, and solve problems. All programs are correlated to the Louisiana State Standards. Basic Lab programs are 30 minutes long and Extended Lab programs are 60 minutes long.

Basic Labs (30 minutes)

Earth Science

- **As the Crow Flies (K–2nd):** Students will explore map reading while interacting with a floor-sized map of Louisiana and learn how to identify the four cardinal points of a compass.
- **Water Cycle Boogie (1st–5th):** Dance, act out and interpret the water cycle to the tunes of the Banana Slug String Band.
- **What's My Watershed (3rd–5th):** Students will investigate watersheds: what they are, how our understanding of them is essential to pollution control and how ultimately our own health depends upon theirs.

Life Science

- **Skulls and Furs (Pre-School–K):** Learn about animals native to Louisiana! By looking at their skulls and fur, examining their adaptations and defenses, students will learn what these animals need to survive. Touching allowed!
- **Six Plant Parts (K–4th):** Your students will dance and sing as they build a plant and learn about plant part functions.
- **Animal Defenses (1st–2nd):** As an extension of our Skulls and Furs program, students will discover how animal adaptations help them survive. Note: Hands-on interaction with animals depends on their health and availability.
- **That Spine of Mine (3rd–5th):** Compare characteristics and explore the nature of animals that are part of the vertebrate family. Note: Hands-on interaction with animals depends on their health and availability.

Math

- **Ooey Goopy Gloop (Pre-School–3rd):** Students will use inquiry skills to create a polymer that can be taken home.
- **The Fishing by Numbers (Pre-School–2nd):** Students will use inquiry skills to create a polymer that can be taken home.

Physical Science

- **Magnificent Magnets (K–3rd):** Observe some ordinary interactions of magnets. Explore the concept of lines of force and magnetic fields while the concept of “opposites attract and likes repel” is stressed.

Labs cont.

Extended Labs (60 minutes)

Earth Science

- **Weather Works (2nd–5th):** Learn about the weather while watching us make clouds, rain, lightning, tornadoes, and other weather phenomena!
- **Louisiana's Living Map (3rd–5th):** Students will explore mapping while locating major geological features, historical places, resources and bodies of water in Louisiana.
- **Rockin' Geology (3rd–8th):** Students learn the three basic rock categories, the rock cycle and then learn how to identify rocks using geologic methods.
- **Pollution Solution (6th–12th):** This program helps students understand the effects of pollution on the watershed and ways they can protect and clean up watersheds.

Life Science

- **Dynamic DNA (6th–8th):** Discover what makes you different from everyone else. Students learn about genetics as they isolate their DNA and build a Watson and Crick model of DNA.
- **Pignapping: Scoping out the Clues (6th–8th):** Your students will use forensic skills and microscopes to examine hair, skin and more as they crack the case of Sci-Port's missing Guinea Pig.
- **Brainworks (7th–12th):** Learn the anatomy and physiology, or structure and function, of the brain while comparing and examining a human and sheep brain. Your students will touch a real human brain.

Physical Science

- **Pop Rockets (4th–8th):** This program will introduce students to the concept of Independent and Dependant variables. Create a chemical reaction to launch a film canister rocket. Students will collect data and use it to make adjustments in their rocket.
- **Power Up (4th–12th):** Students will explore the science and engineering concepts behind electric circuit, challenging their creativity and imagination to do some fun problem solving exercises. The program is centered around the concept of building electrical circuits from the very basic to the very complex depending on the groups grade level and prior classroom preparation.
- **Hydrogen Powered Cars (6th–12th):** In this lab, your students will use fuel cells to explore electrolysis, fuel cell efficiency and Ohm's law while creating hydrogen powered cars. If time allows, solar energy in reference to producing hydrogen will also be explored.