AVAILABLE PROGRAMS

K-3

- **Animals and Adaptations**
  - Meet the reptiles from our animal room and learn all about their natural environments as well as their adaptations. Each student will have the opportunity to touch the reptiles and meet them up close!
- **Effervescent Launchers: Projectile motion**
  - This program can be used to explain the concepts of angle of trajectory vs. distance for projectile motion. Students will learn about the Alka-seltzer/water reaction that takes place during this experiment which produces a gas and provides the force needed to launch a handmade rocket!
- **Magic Sand: Hydrophilic vs. Hydrophobic substances**
  - Introduces students to “water-loving” (hydrophilic) and “water-hating” (hydrophobic) substances by using sand and coated sand (Magic sand)
- **Everyday Uses of Minerals**
  - This program demonstrates the everyday uses of minerals and mineral resources by 1) recognizing the characteristics of a few important minerals, and 2) matching minerals with their common-day materials and uses
- **Mixing Colors**
  - Introduces students to the world of colors. Students will learn about the primary colors as well as secondary colors. They will make a hypothesis about what happens when you mix colors, and then test their hypothesis with a fun experiment!
- **Solids, Liquids, and Gases**
  - This program is an intro to the states of matter. Students will make a lava lamp as a hands-on way to learn about density, solubility, chemical reactions, and the states of matter.
- **Tracing an Epidemic**
  - This program can be used to demonstrate how an epidemic spreads and how the carrier is identified
- **Weather Patterns**
  - Introduces students to the weather patterns of each season, how to observe weather, and how to predict weather

AVAILABLE PROGRAMS

4th Grade

- **Animals and Adaptations**
  - Meet the reptiles from our animal room and learn all about their natural environments as well as their adaptations. Each student will have the opportunity to touch the reptiles and meet them up close!
- **Chemical Reactions**
  - Introduces students to chemical reactions and shows them evidence of chemical changes
- **Effervescent Launchers: Projectile motion**
  - This program can be used to explain the concepts of angle of trajectory vs. distance for projectile motion. Students will learn about the Alka-seltzer/water reaction that takes place during this experiment which produces a gas and provides the force needed to launch a handmade rocket!
- **Gluey Putty: Intro to Polymers**
  - Introduces students to the concepts of polymers and cross-linkers and allows them to investigate their properties
- **Microscopic Mystery**
  - Introduces students to the use of a microscope through an interactive mystery
- **Oil Spill Cleanup**
  - Allows students to find the quickest and most cost-effective method of cleaning an oil spill with an oil spill simulation
- **Properties of Carbon Dioxide**
  - Introduces students to various properties of Carbon Dioxide through a variety of demonstrations and experiments
- **The Water Cycle**
  - Introduces students to the water cycle through an interactive water cycle in a bag activity as well as an interactive water table

AVAILABLE PROGRAMS

5th Grade

- **Animals and Adaptations**
  - Meet the reptiles from our animal room and learn all about their natural environments as well as their adaptations. Each student will have the opportunity to touch the reptiles and meet them up close!
- **Chemistry in a Ziploc Bag**
  - Allows students to react several chemicals and observe changes during the chemical reaction
- **Density**
  - Introduces students to the concept of density through a variety of demonstrations and hands-on experiments
- **Ecosystems**
  - Introduces students to the five major biomes, ecosystems, food chains, and abiotic/biotic factors
- **Microscopic Mystery**
  - Introduces students to the use of a microscope through an interactive mystery
- **Oil Spill Cleanup**
  - Allows students to find the quickest and most cost-effective method of cleaning an oil spill with an oil spill simulation
- **pH**
  - Introduces students to acids, bases, and the pH scale
- **Properties of Carbon Dioxide**
  - Introduces students to various properties of Carbon Dioxide through a variety of demonstrations and experiments
- **The Rock Cycle**
  - Introduces students to the rock cycle, fossils, and Earth's geologic history
- **Water Pollution and The Water Cycle**
  - Students will learn about their watershed and use a hands-on water table to understand the environmental impacts of pollution and runoff

AVAILABLE PROGRAMS

6th Grade

- **Animals and Adaptations**
  - Meet the reptiles from our animal room and learn all about their natural environments as well as their adaptations. Each student will have the opportunity to touch the reptiles and meet them up close!
- **Classifying Living Organisms**
  - Introduces students to the process of classifying living organisms, the levels of organization in an ecosystem, and more.
- **Designing an Experiment**
  - Introduces students to the scientific method, the process of designing an experiment, and allows them to create their own experiment!
- **Oil Spill Cleanup**
  - Allows students to find the quickest and most cost-effective method of cleaning an oil spill with an oil spill simulation
- **The Rock Cycle**
  - Introduces students to the rock cycle, fossils, and Earth’s geologic history
- **Water Pollution and The Water Cycle**
  - Students will learn about their watershed and use a hands-on water table to understand the environmental impacts of pollution and runoff

AVAILABLE PROGRAMS

7th Grade

- **A Changing Climate**
  - Introduces students to the ways in which our climate has changed over time, patterns that we can observe, and ways to lessen our impact on the Earth
- **All about Soil**
  - Introduces students to soil composition, soil nutrients, and the importance of soil. Students will also get to complete a soil ribbon test to determine the percentage of sand, silt, and clay present in a soil sample
- **All about Cells**
  - Introduces students to the fascinating world of cells! They will learn about the differences between plant and animal cells through an interactive activity
- **Animals and Adaptations**
  - Meet the reptiles from our animal room and learn all about their natural environments as well as their adaptations. Each student will have the opportunity to touch the reptiles and meet them up close!
- **Chemistry in a Ziploc Bag**
  - Students will use the scientific method to explain observations made when calcium chloride, sodium bicarbonate, water, and phenol red are mixed
- **Chromatography: Separating Mixtures**
  - Demonstrates a technique or process for separating mixtures that is used by biologists, chemists, clinical scientists, and forensic scientists (detectives)

AVAILABLE PROGRAMS

7th Grade Continued

- **Ecosystems**
  - Introduces students to the five major biomes, ecosystems, food chains, and abiotic/biotic factors
- **Effervescent Launchers: Projectile Motion**
  - This program can be used to explain the concepts of angle of trajectory vs. distance for projectile motion. Students will learn about the Alka-seltzer/water reaction that takes place during this experiment which produces a gas and provides the force needed to launch a handmade rocket!
- **Minerals: Determining the properties of minerals**
  - Introduces students to some of the tests that geologists use to determine the properties of minerals
- **Tracing an Epidemic**
  - Demonstrates how an epidemic spreads and how the carrier is identified
- **Water Pollution and The Water Cycle**
  - Students will learn about their watershed and use a hands-on water table to understand the environmental impacts of pollution and runoff

AVAILABLE PROGRAMS

8th Grade

- **A Changing Climate**
  - Introduces students to the ways in which our climate has changed over time, patterns that we can observe, and ways to lessen our impact on the Earth
- **All about Soil**
  - Introduces students to soil composition, soil nutrients, and the importance of soil. Students will also get to complete a soil ribbon test to determine the percentage of sand, silt, and clay present in a soil sample
- **All about Cells**
  - Introduces students to the fascinating world of cells! They will learn about the differences between plant and animal cells through an interactive activity
- **Animals and Adaptations**
  - Meet the reptiles from our animal room and learn all about their natural environments as well as their adaptations. Each student will have the opportunity to touch the reptiles and meet them up close!
- **Effervescent Launchers: Angle of trajectory vs. distance**
  - This program can be used to explain the concepts of angle of trajectory vs. distance for projectile motion. Students will learn about the Alka-seltzer/water reaction that takes place during this experiment which produces a gas and provides the force needed to launch a handmade rocket!
- **Fossils: Earth's Geologic History**
  - Introduces students to the geological time scale, the fossil record, index fossils, and the uses of fossils
- **Minerals: Determining the properties of minerals**
  - Introduces students to some of the tests that geologists use to determine the properties of minerals

AVAILABLE PROGRAMS

8th Grade continued

- **pH**
  - Introduces students to acids, bases, and the pH scale through interactive demonstrations and experiments
- **Plate Tectonics**
  - Introduces students to the theories of plate tectonics through interactive demonstrations and experiments
- **Gluey Putty: Understanding polymers and cross-linkers**
  - Introduces the concepts of polymers and cross-linkers and allows students to investigate their properties
- **Properties of Waves**
  - Introduces students to the properties of waves by studying reflection, diffraction, and refraction of light
- **Types of Chemical Reactions**
  - Shows students the various types of chemical reactions through interactive experiments
- **Water Pollution and The Water Cycle**
  - Students will learn about their watershed and use a hands-on water table to understand the environmental impacts of pollution and runoff