

Course Description:

Science 1 (2 of 2) explores how living things stay alive and how plants and animals survive, along with how plants and animals help solve human problems. It describes various objects in the sky such as the Sun, moon, and stars. Lastly, it will explain the changes in daylight in different seasons and weather and describe natural resources.

Course Objectives:

- Collect data about different amounts of daylight during the day using a model and tell why daylight changes in a year.
- Find out about the types of natural disasters and tell about the effects on the environment.
- Find out and tell about the basic needs of all living things.
- Go over, sketch, and test a model that can be used to measure daylight.
- Identify and tell about the effects sunlight and water have on plants.
- List ways of how plant and animal features helped humans solve a problem using scientific facts.
- Make and show models of how plant or animal features can be used to help a human problem.
- Point out changes in different seasons of the year and learn about their characteristics.
- Talk about the habitats of different animals based on their needs and how they look and show how they use things around them to make their habitat.
- Tell about different characteristics in the night sky, like the Moon and stars.
- Tell how changes of where the Sun is can affect shadows and tell how a shadow changes during the day.
- Tell how extinction happens and find examples of animals and plants that have gone extinct.
- Tell how internal and external parts on animals and plants help them to grow and reproduce.
- Tell how people use natural resources and how they help people.
- Tell how the solution to a human problem can be solved by copying plant or animal features.

Required Materials:

Required:

- construction paper (white; 1-2 sheets)
- crayons/markers/colored pencils
- glue
- paper
- pencils
- printer and printer paper (for printables)
- ruler
- sand
- scissors
- tape
- tissue paper (colored; 3-4 sheets)
- tissue paper (1-2 sheets)
- tray
- water
- Printables

Optional:

- cardboard tubes
- clay
- pipe cleaners
- string or yarn
- straws

Course Overview:

This course is made up of 6 units. Each unit has five lessons. Lessons are made of up activities that include the following types of learning:

- **Direct Instructions** provide modeling of new skills and concepts. These are not graded activities.
- **Guided Practices** allow for practice of a skill with support. These are graded activities only on a completion basis.
- **Independent Practices** allow for practice of a skill without support. These are graded activities.
- **Unit Reviews** allow for practice of skills prior to taking unit exams. These are not graded activities.
- **Unit Exams** test mastery of skills from the unit. These are graded activities.
- **Projects** provide an opportunity for practice of more complex skills across several activities or lessons within a unit. These activities require a final graded submission.