

# Rocking Through Earth's Changes Over Time

Rocks are the clues to the mystery of The Earth's past!

## 4 Station Field Trip

- Devil's Backbone Open Space
- Time: 2-3 hours
- Distance: < 1 mile
- Second and Fourth Grade

## Students will learn about:

- Local geological topography. Processes involved in changes in the Earth's surface over time.
- The 3 rock types and how they are formed and changed.
- How plants, animals, and humans can change the physical characteristics of their environment.
- How humans can be stewards of the land and make decisions that impact the Earth.

## State Standards

### Second Grade

#### Physical Science

- 1.1 Matter exists as different substances that have observable different properties.

#### Life Science

- 2.1 Plants depend on water and light to grow and on animals for pollination or to move their seeds around.
- 2.2 A range of different organisms lives in different places.

#### Earth and Space Science

- 3.1 Some events on Earth occur quickly; others can occur very slowly.
- 3.2 Wind and water can change the shape of the land.

### Fourth Grade

#### Earth and Space Science

- 3.1 Earth has changed over time
- 3.2 Four major earth systems interact.
- 3.4 Energy and fuels that humans use are derived from natural sources and their use affects the environment in multiple ways.

# What's That Habitat?

Habitats provide the components living organisms need to survive.

## 4 Station Field Trip

- Devil's Backbone Open Space and River Bluffs Open Space
- Time: 2-3 hours
- Distance: < 1 mile
- Kindergarten, First Grade, and Second Grade

## Students will learn about:

- The factors that make up a habitat.
- How plants and animals rely on habitats.
- What plants need to grow and reproduce.
- How habitats can change over time.
- How their actions can affect the environment.
- Leave No Trace principles.

## State Standards

### Kindergarten

#### Physical Science

- 1.2. Sunlight affects the Earth's surface.

#### Life Science

- 2.1. To live and grow, animals obtain food they need from plants or other animals, and plants need water and light.

#### Earth and Space

- 3.2. Plants and animals meet their needs in their habitats and impact one another; people can prepare for severe weather.

### First Grade

#### Life Science

- 2.1. All organisms have external parts that they use to perform daily functions.

### Second Grade

#### Life Science

- 2.1. Plants depend on water and light to grow and on animals for pollination or to move their seeds around.
- 2.2. A range of different organisms lives in different places.

# Fire, Flood, and Drought, Oh My!

Learn how climate, weather, and people influence natural disasters.

## 4 Station Field Trip

- Devil's Backbone Open Space and River Bluffs Open Space
- Time: 2-3 hours
- Distance: < 1 mile
- Third Grade

## Students will learn about:

- How natural disasters affect people and ecosystems.
- How natural disasters happen.
- How people can work to reduce the impact of natural disasters by taking care of our ecosystems.
- How people can be stewards of the land and make decisions that impact the Earth.
- Why healthy natural ecosystems are valuable in reducing the impact of natural disasters on people.

## State Standards

### Third Grade

#### Life Science

- 2.3. Different organisms vary in how they look and function because they have different inherited information; the environment also affects the traits that an organism develops.

#### Earth and Space

- 3.1. Climate describes patterns of typical weather conditions over different scales and variations; historical weather patterns can be analyzed.
- 3.2. A variety of weather hazards result from natural process; humans cannot eliminate weather-related hazards but can reduce their impacts.

# Observing Nature's Wonders

Observation deepens the connection to nature and place.

## Guided Hike

- Horsetooth Mountain Open Space, Devil's Backbone Open Space, other open spaces upon request
- Time: 3-4 hours
- Distance: 3+ miles
- Any grade

## Students will learn about:

- The plants and wildlife of Larimer County.
- Leave No Trace principles and how people can be good stewards of our natural resources.
- How humans have used these lands in the past and present.
- The impacts of wildfire.
- Observation skills through a color scavenger hunt, silent hike, or micro hike.
- Life zones, habitats, and connections within an ecosystem.

## State Standards\*

- Earth and Space Science
- Life Science
- Movement Competence and Understanding
- Physical and Personal Wellness

\* If you have interest in covering a specific topic or standard, let us know. Our Naturalists lead programs on geology, wildlife, plants, local history and more! Write a suggestion in your request form, and we'll do our best to accommodate it.