

# Upper Park Discovery Hike

**60 or 90 minutes**

**3-5**

Students are introduced to the geological history and varying ecosystems of Upper Bidwell Park. Join our Naturalists for a 60 or 90 minute hike along Middle and Lower Trail before heading down to the creek. Through interactive games and group discussion students will learn about Chaparral and Riparian habitats, touch on the geology of the area and make observations about the various ecosystems and how animals interact and survive in those ecosystems.

\*\*This Field Trip meets in Upper Bidwell Park Parking Lot E, **not** the Nature Center.

## Next Generation Science Standards 3-5

### Third Grade

#### 3-LS4 Biological Evolution: Unity and Diversity

##### Performance Expectations

- 3-LS4-1. Analyze and interpret data from fossils to provide evidence of the organisms and environments in which they lived long ago.
- 3-LS4-2. Use evidence to construct an explanation for how the variations in characteristics among individuals of the same species may provide advantages in surviving, finding mates, and reproducing.
- 3-LS4-3. Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all.

##### SEP

- Analyzing and Interpreting Data
- Constructing Explanations and Designing Solutions

##### DCI

- LS2.C: Ecosystem Dynamics, Functioning, and Resilience
- LS4.A: Evidence of Common Ancestry and Diversity
- LS4.B: Natural Selection
- LS4.C: Adaptation

##### CCC

- Cause and Effect
- Scale, Proportion, and Quantity

### Fourth Grade

#### 4-LS1 From Molecules to Organisms: Structures and Processes

##### Performance Expectations

- 4-LS1-1. Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.

**SEP**

- Engaging in Argument from Evidence

**DCI**

- LS1.A: Structure and Function

**CCC**

- Systems and System Models

## **4-ESS1 Earth's Place in the Universe**

**Performance Expectations**

- 4-ESS1-1. Identify evidence from patterns in rock formations and fossils in rock layers to support an explanation for changes in landscape over time.

**SEP**

- Constructing Explanations and Designing Solutions

**DCI**

- ESS1.C: The History of Planet Earth

**CCC**

- Patterns

## **Fifth Grade**

## **5-PS3 Energy**

**Performance Expectations**

- 5-PS3-1. Use models to describe that energy in animals' food (used for body repair, growth, and motion and to maintain body warmth) was once energy from the sun.

**SEP**

- Developing and Using Models

**DCI**

- Ps3.D: Energy in Chemical Processes and Everyday Life

**CCC**

- Energy and Matter

## **5-LS2 Ecosystems: Interactions, Energy, and Dynamics**

**Performance Expectations**

- 5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.

**SEP**

- Developing and Using Models

**DCI**

- LS2.A: Interdependent Relationships in Ecosystems

**CCC**

- Systems and System Models