# **Unit 2-Plant & Animal Environments**

Content Area: Science Course(s): Science K

Time Period: Marking Period 2

Length: MP 2 Status: Published

### **Essential Questions**

- What features help plants and animals survive in different environments?
- How do plants and animals depend on the land, air, and water to survive?
- How do plants and animals change the environment to meet their needs?

### **Big Ideas**

- Plants and animals can change their local environment.
- Living things need water, air and resources from the land, and they live in places that have the things they need.
- Humans use natural resources for everything they do.

## **Technology Integration**

8.1.2.NI.1: Model and describe how individuals use computers to connect to other individuals, places, information, and ideas through a network.

Activity:

Students will watch and interact with Mystery Science, "Why are Polar Bears White?" video.

### **Cross Curricular Integration**

Integration Area: Language Arts

RI.K.1 With prompting and support, ask and answer questions about key details in a text (e.g., who, what, where, when, why, how).

Activity:

Students will draw and write about an animal and its home.

### **Technology Connection**

8.1.2.DA.1: Collect and present data, including climate change data, in various visual formats

### **Science and Engineering Practices**

### Obtaining, Evaluating, and Communicating Information:

- Read grade-appropriate texts and/or use media to obtain scientific and/or technical information to determine patterns in and/or evidence about the natural and designed world(s).
- Obtain information using various texts, text features (e.g., headings, tables of contents, glossaries, electronic menus, icons), and other media that will be useful in answering a scientific question and/or supporting a scientific claim.
- Communicate information or design ideas and/or solutions with others in oral and/or written forms using models, drawings, writing, or numbers that provide detail about scientific ideas, practices, and/or design ideas.

### **Planning and Carrying Out Investigations:**

- Make observations (firsthand or from media) and/or measurements to collect data that can be used to make comparisons.
- Make predictions based on prior experiences.

### **Analyzing and Interpreting Data:**

- Record information (observations, thoughts, and ideas).
- Use and share pictures, drawings, and/or writings of observations.
- Compare predictions (based on prior experiences) to what occurred (observable events).

## **Enduring Understandings**

#### **Next Generation Standards**

#### Biogeology

K-ESS2.E Plants and animals can change their environment.

#### **Natural Resources**

K-ESS3.A Living things need water, air, and resources from the land, and they live in places that have the

things they need. Humans use natural resources for everything they do.

### **Student Learning Standards**

#### **Mathematics**

K.MP.2 Reason abstractly and quantitatively.

K.MP.4 Model with mathematics.

K.C C Counting and Cardinality

#### **Focus Areas**

#### Knowledge

- How plants and animals can change their environment.
- Living things need water, air, resources from land to survive.
- Living things live in places that have the things they need to survive.
- Humans use natural resources from the environment.
- Plants, animals and their surroundings make a system, they work together to meet needs.

#### Skills

- Diagram/explain how plants and animals can change their environment to meet their needs.
- Diagram/explain the relationship between the needs of different plants or animals and the places they live
- Diagram/explain what features animals and plants have to survive in different environments.
- Sketch/explain how human use resources in different environments.

### **Understandings**

- Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs.
- Use a model to represent the relationship between the needs of different plants or animals (including humans) and the places they live.

### Resources

### **Primary Resources**

- BrainPop, Jr.
- Mystery Science

• NJLCT Unit 4 Plant and Animal Environments

#### Core

- Mystery Science Plant and Animal Environment Read Along "Where do Animals Liv?"
- Environment Activity
- Mystery Science "How do Animals Make Homes in the Forest?"
- Mystery Science "How do Plants and Trees Grow?"
- Hibernation Activity
- Migration Activity
- Mystery Science Camouflage Activities "Why are polar bears white?"
- Winter Survival "Warmth" Lab

### **Supplemental**

- Wetlands Activities
- Forest Activities
- Nature Walk Activity
- Food Chain, Activity
- Ecosystem Animals, Activity
- Desert Environment, Activities 25-28