

# Educational Resources from *Phenomenon Science Education*

## Student Proficiency Goals for **NGSS K-ESS3-1**



### Information about K-ESS3-1

#### **NGSS Performance Expectation K-ESS3-1.**

Use a model to represent the relationship between the needs of different plants and animals (including humans) and the places they live.

#### **Clarification Statement.**

*Examples of relationships could include that deer eat buds and leaves, therefore, they usually live in forested areas; and, grasses need sunlight so they often grow in meadows. Plants, animals, and their surroundings make up a system.*

#### **Assessment Limits.**

*No specific assessment limits are listed for this Performance Expectation.*

#### **Science and Engineering Practice (Developing and Using Models)**

- Use a model to represent relationships in the natural world.

#### **Disciplinary Core Idea (ESS3.A: Natural Resources)**

- 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.

#### **Crosscutting Concept (Systems and System Models)**

- Systems in the natural and designed world have parts that work together.

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#### Student Proficiency Goals

##### SEP (Developing and Using Models):

- Students use given models to identify and describe plants and/or animals in places, where in those places the plants and/or animals live, and what they need to survive and grow.
- Students use given models to represent and describe relationships between where plants and/or animals live in given places and what those plants and/or animals need to survive and grow.
- Students use given models to represent and describe relationships among specific plants and/or animals and the resources those plants and/or animals need to survive and grow.

##### DCI (ESS3.A Natural Resources):

- Students know living things need resources such as water, air, food, and shelter.
- Students know that living things live in places that have resources which provide what the organisms need to survive and grow.
- Students know that humans use natural resources for many purposes.

##### CCC (Systems and System Models):

- Students notice that plants and/or animals live in places where their survival needs are met.
- Students consider that plants and/or animals and the places in which they live make up parts of systems.
- Students consider how different parts of systems work together to allow the survival needs of living things to be met.