



## Kindergarten

### 3.3.K.B Earth and Space Sciences: Earth's Systems

**Students who demonstrate understanding can** *construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs.*

**Clarifying Statement:** Examples of plants and animals changing their environment could include a squirrel digs in the ground to hide its food and tree roots can break concrete.

**Assessment Boundary:** N/A

Science and Engineering Practices (SEP)	Disciplinary Core Ideas (DCI)	Crosscutting Concepts (CCC)
<b>Engaging in Argument From Evidence</b> Engaging in argument from evidence in K–2 builds on prior experiences and progresses to comparing ideas and representations about the natural and designed world(s). <ul style="list-style-type: none"> <li>Construct an argument with evidence to support a claim.</li> </ul>	<b>Biogeology</b> <ul style="list-style-type: none"> <li>Plants and animals can change their environment.</li> </ul> <b>Human Impacts on Earth Systems</b> <ul style="list-style-type: none"> <li>Things that people do to live comfortably can affect the world around them. But they can make choices that reduce their impacts on the land, water, air, and other living things.</li> </ul>	<b>Systems and System Models</b> <ul style="list-style-type: none"> <li>Systems in the natural and designed world have parts that work together.</li> </ul>

**Pennsylvania Context:** Examples of Pennsylvania context include that Pennsylvania has many examples of how animals, plants, and humans alter and impact the environment to meet their survival needs.

**PA Career Ready Skills:** Identify similarities and differences between self and others.

## Connections to Other Standards Content and Practices

Standard Source	Possible Connections to Other Standard(s) or Practice(s)
<b>Agriculture (AFNR)</b>	CS.02.02.01.a: Identify and summarize the components within AFNR systems (e.g., Animal Systems: health, nutrition, genetics, etc.; Natural Resources Systems: soil, water, etc.).
<b>Science, Environmental Literacy and Sustainability (NAAEE)</b>	K-4 Strand 2.1.B. Earth's living systems: Learners identify basic similarities and differences among a wide variety of living organisms. They explain ways that living organisms, including humans, affect the environment in which they live, and how their environment affects them.
<b>PA Core Standards: ELA</b>	CC.1.4.K.V: Participate in individual or shared research projects on a topic of interest.
<b>PA Core Standards and Practices: Math</b>	MP.3: Construct viable arguments and critique the reasoning of others. CC.2.4.K.A.1: Describe and compare attributes of length, area, weight, and capacity of everyday objects. CC.2.4.K.A.4: Classify objects and count the number of objects in each category.



Standard Source	Possible Connections to Other Standard(s) or Practice(s)
PA Standards: Social Studies	6.1.K.C: Identify choices to meet needs.
Educational Technology (ISTE)	1.1. Empowered Learner: Students leverage technology to take an active role in choosing, achieving, and demonstrating competency in their learning goals, informed by the learning sciences.
Technology and Engineering (ITEEA)	STEL-1A: Compare the natural world and human-made world.