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## The Living World (Life Science)

**Essential Question: What would happen to plant and animal development if there**

Enduring Knowledge	Science Concepts	GE	Evidence of Understanding
<p><b><u>Life Cycles and Reproduction:</u> All living organisms and their component cells have identifiable characteristics that allow for survival.</b></p>	<p>a. All organisms undergo stages of development that include being born, developing into adulthood, reproducing and dying. b. Most organisms come from male and female parents.</p>	31	Drawing and labeling the stages of development in the life of a familiar plant or animal
<p><b><u>Interdependence within Ecosystems:</u> Energy enters an ecosystem in the form of sunlight and flows through the system to each cell. Matter interacts, changes, and recycles in an ecosystem. Populations of organisms survive by maintaining interdependent relationships with one another and by utilizing biotic and abiotic resources from the environment.</b></p>	<p>a. Plants need light (energy) to survive.</p>	34	Experimenting with plant growth under different conditions, including light and no light
<p><b><u>Interdependence within Ecosystems:</u> Energy enters an ecosystem in the form of sunlight and flows through the system to each cell. Matter interacts, changes, and recycles in an ecosystem. Populations of organisms survive by maintaining interdependent relationships with one another and by utilizing biotic and abiotic resources from the environment.</b></p>	<p>a. All animals depend on plants. Some animals eat plants for food; other animals eat animals that eat plants.</p>	35	Acting out or constructing simple diagrams, pictures or words that show what eats what

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**were no sun?**

Focusing Questions	Potential Inquiries/Activities	Resources/Notes
<p><b>What are the stages of development?</b></p> <ul style="list-style-type: none"><li>- Life is cyclical.</li><li>- Stages in a life cycle are birth, growth, adulthood, reproduction and death.</li><li>- Both plants and animals have life cycles, although there are differences.</li><li>- Most organisms (plants and animals) have males and females.</li></ul>	<p>Use scientific drawings to record observations of plant and/or animal life cycles (e.g., marigolds, beans, sunflowers, butterflies, frogs, chicks, mealworms).</p>	
<p><b>What is the effect of light on plants?</b></p> <ul style="list-style-type: none"><li>- The requirements for plants to sustain life, include light, air, food, water.</li><li>- Light is a source of <u>energy</u> for plant growth.</li><li>-When a plant's requirements are not met, it does not completely develop and may die.</li><li>- The Sun is a plant's source of energy.</li></ul>	<p>What happens when you withhold light from a plant? "What will happen if... (Have students design their own experiment by choosing their own variables. Then record observations in pictures or words over a period of time).</p>	
<p><b>How do animals depend on plants?</b></p> <ul style="list-style-type: none"><li>- Explain a food web.</li><li>- Both animals and plants can be food.</li><li>- Plants are the starting point of every food web.</li></ul>	<p>What would happen to people if we had no grass? (Trace the food web.)</p>	