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The Living World (Life Science)

Essential Question: What kind of environment would support living things?

Enduring Knowledge	Science Concepts	GE	Evidence of Understanding
<p><u>Survival of Organisms:</u> All living organisms and their component cells have identifiable characteristics that allow for survival.</p>	<p>a. There are differences between living and non-living things.</p>	<p>30</p>	<p>Observing and recording what happens when food and water are given to living and non-living things</p>
<p><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.</p>	<p>a. Plants and animals need water, food and air.</p>	<p>34</p>	<p>Caring for plants and animals by identifying and providing for their needs</p>
<p><u>Classification of Living Things:</u> All Living Things exhibit patterns of similarity in their structures, behaviors and biochemistry.</p>	<p>a. Some living things (organisms) are identified as plants or animals.</p>	<p>38</p>	<p>Sorting and identifying examples of plants and animals</p>

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Focusing Questions	Potential Inquiries/Activities	Resources/Notes
<p>How are living and non-living things different?</p> <ul style="list-style-type: none"> - Students identify the characteristics/requirements of living and non-living things. - Food and water are necessary to sustain life. 	<p>What happens to 2 sets of potted plants and the potted rocks (truck or other non-living object) when you give one food and water? (Water and feed 1 plant and 1 rock. Do not water and feed other plant and rock.)</p>	
<p>What are the needs of living things?</p> <ul style="list-style-type: none"> - Plants and animals are living things. - There are a variety of different kinds of animals, including people (e.g., mammals, insects, reptiles, amphibians, birds). - There are a variety of different kinds of plants. - Plants and animals need water, nutrients, air and shelter or defense. - Plants also need light. - All living things grow, change, and reproduce. 	<p>What happens to the potted plants and the potted rocks (truck or other non-living object) when you give them food and water? Water and feed 1 plant and 1 rock. Do not water and feed other plant and rock.</p>	
<p>How can we use what we know about living things to sort them into groups of plants or animals?</p> <ul style="list-style-type: none"> - Plants and animals are living things. 	<p>Which living things observed on a nature walk are animals and which are plants? Record observations as labeled pictures.</p>	