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## The Living World (Life Science)

Enduring Knowledge	Science Concepts	GE	Evidence of Understanding
<p><b><u>Survival of Organisms:</u> All living organisms and their component cells have identifiable characteristics that allow for survival.</b></p>	<p>a. Organisms have characteristics that help them find what they need to survive in their environment and provide for their survival: (defense; obtaining food; reproduction; eliminate waste).</p>	<p>30</p>	<p>Identifying how the physical structure/characteristic of an organism allows it to survive and defend itself (e.g., the coloring of a fiddler crab allows it to camouflage itself in the sand and grasses of its environment so that it will be protected from predators; a rose is protected by its thorns)</p>
<p><b><u>Classification of Living Things:</u> All living things exhibit patterns of similarity in their structures, behaviors and biochemistry.</b></p>	<p>a. The great variety of living things can be sorted into groups in many ways using various characteristics to decide which things belong to which group.</p>	<p>38</p>	<p>Describing and sorting plants and animals into groups based on structural similarities and differences (e.g., all pine, spruce and evergreen trees have similar leaf structures; spiders have eight legs, and insects have six)</p>
<p><b><u>Natural Selection/Evolution:</u> All living things exhibit patterns of similarity in their structures, behaviors and biochemistry.</b></p>	<p>a. Organisms of the same kind differ in their individual characteristics (traits) (e.g., even though all dogs are of the same species, they can have very different traits).</p>	<p>39</p>	<p>Identifying differences in characteristics of a certain type of organism (e.g., dogs with long hair or short hair; humans with blue or brown eyes)</p>

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Focusing Questions	Potential Inquiries/Activities	Resources/Notes
<p><b>What characteristics does an organism have that helps it survive in its environment?</b></p>	<p>Identify the physical characteristics organisms need to survive.</p>	
<p><b>What do we mean by physical structures?</b> - All organisms have basic physical structures by which they can be classified. <b>How can you classify plants and animals?</b> - Each plant and animal has different structures that serve different functions.</p>	<p>Design a system to sort and describe plants or animals based on various structural differences/similarities.</p>	
<p><b>What ways can plants and animals be put into groups?</b> - Plants and animals have characteristics that can be identified. - Similar organisms may have some traits that are different. - There is variation within a species.</p>		