

Eighth Grade State Performance Standards

C1 - C3 – Concepts of Life Science	<p>SC Students develop an understanding of the concepts, models, theories, facts, evidence, systems, and processes of life science.</p> <p>SC1 Students develop an understanding of how science explains changes in life forms over time, including genetics, heredity, the process of natural selection (evolution).</p> <p>SC2 Students develop an understanding of the structure, function, behavior, development, life cycles, and diversity of living organisms.</p> <p>SC3 Students develop an understanding that all organisms are linked to each other and their physical environments through the transfer and transformation of matter and energy.</p>
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Grade Level Expectations	KGBSD Student Objectives
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	<p>K - SC2.4 explaining the differences between internal and external fertilization.</p> <p>K - SC2.5 describing metamorphosis in amphibians.</p> <p>K - SC2.6 comparing and contrast reproduction and young in vertebrate groups.</p> <p>K - SC2.7 comparing and contrast reproduction and young in vertebrate groups.</p> <p>K - SC2.8 making inferences about the relatedness among organisms by examining similarities of growth, development, internal and external anatomical features.</p> <p>K - SC2.9 explaining the difference between learned and innate behavior.</p> <p>K - SC2.10 describing hibernation, estivation, arcadian rhythms, and natural navigation.</p> <p>K - SC2.11 describing the functions and interdependence of human body systems. (i.e., circulatory, respiratory, nervous)</p> <p>K - SC2.12 constructing a model of a cell containing a common set of observable structures (organelles) that carry out the various functions of the cell.</p> <p>K - SC2.13 diagramming and explaining the interactions of the circulatory and respiratory systems.</p> <p>K - SC2.14 explaining how body systems interact.</p> <p>K - SC2.15 describing how the immune system protects against infection.</p> <p>K - SC2.16 explaining how viruses infect a person and replicate.</p> <p>K - SC2.17 naming things that infect the human body and interfere with normal body functioning.</p>
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<p>The student demonstrates an understanding that all organisms are linked to each other and their physical environments through the transfer and transformation of matter and energy by:</p> <p>[8] SC3.1 stating that energy flows and that matter cycles but is conserved within an ecosystem.</p> <p>[8] SC3.2 organizing a food web that shows the cycling of energy and matter.</p>	<p>K – SC3.1 stating that energy flows and that matter cycles but is conserved within an ecosystem.</p> <p>K – SC3.2 creating a model of the water cycle between atmosphere, land and oceans.</p> <p>K – SC3.3 diagramming the nitrogen cycle and explaining its importance.</p> <p>K – SC3.4 tracing carbon cycle and explaining its importance to living things.</p> <p>K – SC3.5 listing oxygen, hydrogen and carbon as essential elements of living matter and reactions.</p> <p>K – SC3.6 viewing food webs as it relates to energy and nutrient cycles.</p>
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