

Eighth Grade State Performance Standards

D1 –D4– Concepts of Earth Science	<p>SD Students develop an understanding of the concepts, processes, theories, models, evidence, and systems of earth and space sciences.</p> <p>SD1 Students develop an understanding of Earth’s geochemical cycles.</p> <p>SD2 Students develop an understanding of the origins, ongoing processes, and forces that shape the structure, composition, and physical history of the Earth.</p> <p>SD3 Students develop an understanding of the cyclical changes controlled by energy from the sun and by Earth’s position and motion in our solar system.</p> <p>SD4 Students develop an understanding of the theories regarding the evolution of the universe.</p>
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Grade Level Expectations	KGBSD Student Objectives
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<p>The student demonstrates an understanding of geochemical cycles by:</p> <p>[8] SD1.1 making connections between components of the locally observable geologic environment and the rock cycle. (L)</p> <p>[8] SD1.2 applying knowledge of the water cycle to explain changes in the Earth’s surface.</p> <p>The student demonstrates an understanding of the forces that shape Earth by:</p> <p>[8] SD2.1 interpreting topographical maps to identify features (i.e., rivers, lakes, mountains, valleys, islands, permafrost, and tundra).</p> <p>[8] SD1.2 using models to show the relationship between convection currents within the mantle and the large-scale movement of the surface. (L)</p>	<p>K – SD1.1 using local charts, topographical maps, and other maps to identify geological environment and rocks.</p> <p>K – SD2 applying knowledge of the water cycle to explain changes in the Earth’s surface.</p> <p>K – SD2.1 identifying safe and hazardous waterways on local charts.</p> <p>K – SD2.2 reading charts and maps.</p> <p>K – SD2.3 using a chart and compass to determine the compass headings for large ships.</p> <p>K – SD2.4 reviewing sixth grade plate tectonics as it relates to our ocean currents, eddies, and water conditions.</p>
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Grade Level Expectations	KGBSD Student Objectives
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<p>The student demonstrates an understanding of the theories regarding the origin and evolution of the universe by:</p> <p>[8] SD4.1 creating models of the solar system illustrating size, location/position, composition, moons/rings, and conditions. L)</p> <p>[8] SD4.2 comparing the brightness of a star to its distance and size.</p>	<p>K – SD4.1 reviewing sixth grade information on the solar system.</p> <p>K - SD4.2 reviewing sixth grade information on stars.</p> <p>K - SD4.3 correlating centrifugal force to the planets and moons orbits.</p>
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