

Fifth Grade State Performance Standards

B1 – Concepts of Physical Science	<p>SB Students develop an understanding of the concepts, models, theories, universal principles, and facts that explain the physical world.</p> <p>SB1 Students develop an understanding of the characteristic properties of matter and the relationship of these properties to their structure and behavior.</p> <p>SB2 Students develop an understanding that energy appears in different forms, can be transformed from one form to another, can be transferred or moved from one place or system to another, may be unavailable for use, and is ultimately conserved.</p> <p>SB3 Students develop an understanding of the interactions between matter and energy, including physical, chemical, and nuclear changes, and the effects of these interactions on physical systems.</p> <p>SB4 Students develop an understanding of motions, forces, their characteristics and relationships, and natural forces and their effects.</p>
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Grade Level Expectations	KGBSD Student Objectives
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<p>The student demonstrates understanding of the structure and properties of matter by:</p> <p>{5} SB1.1 comparing models that represent matter as solids, liquids, or gases and the changes from one state to another. (L)</p> <p>The student demonstrates an understanding of how energy can be transformed, transferred, and conserved by:</p> <p>{5} SB2.1 classifying the changes (i.e., heat, light, sound and motion) that electrical energy undergoes in common household appliances (i.e., toaster, blender, radio, light bulb, heater).</p> <p>The student demonstrates understanding of the interactions between matter and energy and the effects of these interactions on systems by:</p> <p>{5} SB3.1 identifying physical and chemical changes based on observable characteristics (e.g., tearing paper vs. burning paper).</p>	<p>K – SB1.1 reviewing and discussing models that represent matter as solids, liquids, or gases and the changes from one state to another. (L)</p> <p>K - SB2.1 classifying the changes (i.e., heat, light, sound and motion) that electrical energy undergoes in common household appliances (i.e., toaster, blender, radio, light bulb, heater). (ex. Models and designs)</p> <p>K – SB2.2 designing and constructing a machine to solve a specific problem or do a specific task.</p> <p>K – SB2.3 experimenting with and understand the relationship between the structure and the function of components within a machine.</p> <p>K - SB3.1 identifying physical and chemical changes based on observable characteristics (e.g., tearing paper vs. burning paper). (e.g., fourth grade mixtures and solutions)</p>
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Grade Level Expectations	KGBSD Student Objectives
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<p>The student demonstrates an understanding of motions, forces, their characteristics, relationships, and effects by:</p> <p>{5} SB4.1 investigating that the greater the force acting on an object, the greater the change in motion will be. (L)</p>	<p>K - SB4.1 investigating that the greater the force acting on an object, the greater the change in motion will be. (L)</p> <p>K - SB4.2 manipulating simple mechanical devices and explain how they work.</p>
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