

## Fourth Grade State Performance Standards

<b>B-1 Concepts of Physical Science</b>	<b>SB</b> Students develop an understanding of the concepts, models, theories, universal principles, and facts that explain the physical world.
	<b>SB1</b> Students develop an understanding of the characteristic properties of matter and the relationship of these properties to their structure and behavior.
	<b>SB2</b> 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.
	<b>SB3</b> 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.
	<b>SB4</b> Students develop an understanding of motions, forces, their characteristics and relationships, and natural forces and their effects.

<b>Grade Level Expectations</b>	<b>KGBSD Student Objectives</b>
---------------------------------	---------------------------------

## Fourth Grade State Performance Standards

<b>B-1 Concepts of Physical Science</b>	<p><b>SB</b> Students develop an understanding of the concepts, models, theories, universal principles, and facts that explain the physical world.</p> <p><b>SB1</b> Students develop an understanding of the characteristic properties of matter and the relationship of these properties to their structure and behavior.</p> <p><b>SB2</b> 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><b>SB3</b> 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><b>SB4</b> Students develop an understanding of motions, forces, their characteristics and relationships, and natural forces and their effects.</p>
---	--

Grade Level Expectations	KGBSD Student Objectives
--------------------------	--------------------------

<p><b>The student demonstrates an understanding of the structure and properties of matter by:</b></p> <p>[4] SB1.1 identifying and comparing the characteristics of gases, liquids, and solids.</p> <p><b>The student demonstrates an understanding of how energy can be transformed, transferred, and conserved by:</b></p> <p>[4] SB2.1 investigating the effectiveness of different insulating and conducting materials with respect to heat flow and record the results. (L)</p> <p><b>The student demonstrates an understanding of the interactions between matter and energy and the effects of these interactions on systems by:</b></p> <p>[4] SB3.1 explaining that temperature changes cause changes in phases of substances (e.g., ice changing to liquid water and liquid water to water vapor).</p>	<p>K - SB1.1 identifying and comparing the characteristics of gases, liquids, and solids.</p> <p>K – SB1.2 recognizing the physical, chemical and nuclear changes and interactions that result in observable changes in the properties of matter. (e.g., observing and describing situations in which the combination of two or more materials has properties different from the original materials such as chemical reaction, (observing and describing saturation and concentration).</p> <p>K - SB2.1 investigating the effectiveness of different insulating and conducting materials with respect to heat flow and record the results. (L)</p> <p>K – SB2.2 demonstrating and describing the four processes, which change the state of matter (evaporation, condensation, freezing and melting).</p> <p>K - SB3.1 explaining that temperature changes cause changes in phases of substances (e.g., ice changing to liquid water and liquid water to water vapor).</p> <p>K – SB3.2 explaining and showing the water cycle and how it affects the weather of the earth.</p> <p>K – SB3.3 demonstrating and describing the four processes, which change the state of matter (evaporation, condensation, freezing and melting).</p>
--	---

## Fourth Grade State Performance Standards

<b>B-1 Concepts of Physical Science</b>	<p><b>SB</b> Students develop an understanding of the concepts, models, theories, universal principles, and facts that explain the physical world.</p> <p><b>SB1</b> Students develop an understanding of the characteristic properties of matter and the relationship of these properties to their structure and behavior.</p> <p><b>SB2</b> 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><b>SB3</b> 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><b>SB4</b> Students develop an understanding of motions, forces, their characteristics and relationships, and natural forces and their effects.</p>
---	--

<b>Grade Level Expectations</b>	<b>KGBSD Student Objectives</b>
---------------------------------	---------------------------------

<p><b>The student demonstrates an understanding of motions, forces, their characteristics, relationships, and effects by:</b></p> <p>[4] SB4.1 simulating that changes in speed or direction of motion are caused by forces. (L)</p>	<p>K - SB4.1 simulating that changes in speed or direction of motion are caused by forces. (e.g., tsunami, water, volcanoes) (L)</p> <p>K – SB4.2 predicting and experimenting the motions and forces of water. (e.g., tides, rivers and glaciers, falling water)</p>
--	---