

**Standard Division Document School Year 2017-2018**  
**Course : Fourth Grade Science**

Standard	First Nine Weeks	Second Nine Weeks		Fourth Nine Weeks
<p><b>4.P.1 Explain how various forces affect the motion of an object.</b></p> <p>This standard taught throughout the year.</p>			<p><b>4.P.1.1</b> Explain how magnets interact with all things made of iron and with other magnets to produce motion without touching them.</p> <p><b>4.P.1.2</b> Explain how electrically charged objects push or pull on other electrically charged objects and produce motion.</p>	
<p><b>4.P.2 Understand the composition and properties of matter before and after they undergo a change or interaction.</b></p>		<p><b>4.P.2.1</b> Compare the physical properties of samples of matter: (strength, hardness, flexibility, ability to conduct heat, ability to conduct electricity, ability to be attracted by magnets, reactions to water and fire)</p> <p><b>4.P.2.2</b> Explain how minerals are identified using tests for the physical properties of hardness, color, luster, cleavage and streak.</p> <p><b>4.P.2.3</b> Classify rocks as metamorphic, sedimentary or igneous based on their composition, how they are formed and the processes that create them.</p>		

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<p><b>4.P.3 Recognize that energy takes various forms that may be grouped based on their interaction with matter.</b></p>			<p><b>4.P.3.1</b> Recognize the basic forms of energy (light, sound, heat, electrical, and magnetic) as the ability to cause motion or create change.</p> <p><b>4.P.3.2</b> Recognize that light travels in a straight line until it strikes an object or travels from one medium to another, and that light can be reflected, refracted, and absorbed.</p>	
<p><b>4.E.1 Explain the causes of day and night and phases of the moon.</b></p> <p>This standard taught throughout the year.</p>	<p><b>4.E.1.1</b> Explain the cause of day and night based on the rotation of Earth on its axis.</p> <p><b>4.E.1.2</b> Explain the monthly changes in the appearance of the moon, based on the moon’s orbit around the Earth.</p>			
<p><b>4.E.2 Understand the use of fossils and changes in the surface of the earth as evidence of the history of Earth and its changing life forms.</b></p>	<p><b>4.E.2.3</b> Give examples of how the surface of the earth changes due to slow processes, such as erosion and weathering, and rapid processes such as landslides, volcanic eruptions, and earthquakes.</p>	<p><b>4.E.2.1</b> Compare fossils (including molds, casts, and preserved parts of plants and animals) to one another and to living organisms.</p> <p><b>4.E.2.2</b> Infer ideas about Earth’s early environments from fossils of plants and animals that lived long ago.</p>		

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<p><b>4.L.1</b>                  Understand the effects of environmental changes, adaptations and behaviors that enable animals (including humans) to survive in changing habitats.</p>				<p><b>4.L.1.1</b> Give examples of changes in an organism’s environment that are beneficial to it and some that are harmful.</p> <p><b>4.L.1.2</b> Explain how animals meet their needs by using behaviors in response to information received from the environment.</p> <p><b>4.L.1.3</b> Explain how humans can adapt their behavior to live in changing habitats (e.g., recycling wastes, establishing rain gardens, planting trees and shrubs to prevent flooding and erosion).</p> <p><b>4.L.1.4</b> Explain how differences among animals of the same population sometimes give individuals an advantage in surviving and reproducing in changing habitats.</p>
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<p><b>4.L.2</b> Understand food and the benefits of vitamins, minerals and exercise.</p>				<p><b>4.L.2.1</b> Classify substances as food or non-food items based on their ability to provide energy and materials for survival, growth and repair of the body.</p> <p><b>4.L.2.2</b> Explain the role of vitamins, minerals and exercise in maintaining a healthy body.</p>
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