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| **Standard** | **First Nine Weeks** | **Second Nine Weeks** | **Third Nine Weeks** | **Fourth Nine Weeks** |
| **4.P.1 Explain how various forces affect the motion of an object.**    This standard taught throughout the year. | **4.P.1.1** Explain how magnets interact with all things made of iron and with other magnets to produce motion without touching them.  **4.P.1.2** Explain how electrically charged objects push or pull on other  electrically charged objects and produce motion. | **4.P.1.1** Explain how magnets interact with all things made of iron and with other magnets to produce motion without touching them.  **4.P.1.2** Explain how electrically charged objects push or pull on other electrically charged objects and produce motion. | **4.P.1.1** Explain how magnets interact with all things made of iron and with other magnets to produce motion without touching them.  **4.P.1.2** Explain how electrically charged objects push or pull on other  electrically charged objects and produce motion. | **4.P.1.1** Explain how magnets interact with all things made of iron and with other magnets to produce motion without touching them.  **4.P.1.2** Explain how electrically charged objects push or pull on other  electrically charged objects and produce motion. |
| **4.P.2 Understand the composition and properties of matter before and after they undergo a change or interaction.** |  | **4.P.2.1** 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)  **4.P.2.2** Explain how minerals are identified using tests for the physical properties of hardness, color, luster, cleavage and streak.  **4.P.2.3** Classify rocks as metamorphic, sedimentary or igneous based on their composition, how they are formed and the processes that create them. |  |  |

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| **4.P.3 Recognize that energy takes various forms that may be grouped based on their interaction with matter.** |  |  | **4.P.3.1** Recognize the basic forms of energy (light, sound, heat, electrical, and magnetic) as the ability to cause motion or create change.  **4.P.3.2** 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. |  |
| **4.E.1**  **Explain the causes of day and night and phases of the moon.**  This standard taught throughout the year. | **4.E.1.1** Explain the cause of day and night based on the rotation of Earth on its axis.  **4.E.1.2** Explain the monthly changes in the appearance of the moon, based on the moon’s orbit around the Earth. | **4.E.1.1** Explain the cause of day and night based on the rotation of Earth on its axis.  **4.E.1.2** Explain the monthly changes in the appearance of the moon, based on the moon’s orbit around the Earth. | **4.E.1.1** Explain the cause of day and night based on the rotation of Earth on its axis.  **4.E.1.2** Explain the monthly changes in the appearance of the moon, based on the moon’s orbit around the Earth. | **4.E.1.1** Explain the cause of day and night based on the rotation of Earth on its axis.  **4.E.1.2** Explain the monthly changes in the appearance of the moon, based on the moon’s orbit around the Earth. |
| **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.** | **4.E.2.3** 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. | **4.E.2.1** Compare fossils (including molds, casts, and preserved parts  of plants and animals) to one another and to living organisms.  **4.E.2.2** Infer ideas about Earth’s early environments from fossils of plants and animals that lived long ago. |  |  |

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| **4.L.1**  **Understand the effects of environmental changes, adaptations and behaviors that enable animals (including humans) to survive in changing habitats.** |  |  |  | **4.L.1.1** Give examples of changes in an organism’s environment that are beneficial to it and some that are harmful.  **4.L.1.2** Explain how animals meet their needs by using behaviors in response to information received from the environment.  **4.L.1.3** 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).  **4.L.1.4** Explain how differences among animals of the same population sometimes give individuals an advantage in surviving and reproducing in changing habitats. |

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| **4.L.2**  **Understand food and the benefits of vitamins, minerals and exercise.** |  |  |  | **4.L.2.1** 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.  **4.L.2.2** Explain the role of vitamins, minerals and exercise in maintaining a healthy body. |