

4th Grade Science Revised Pacing Guide
Camden Intermediate School

Weeks 1-12	Weeks 13-24	Weeks 25-30	Weeks 31-36
<u>Ecosystems and Molecular Biology</u>	<u>Matter, and Fossils</u>	<u>Forces and Motion/Energy: Conservation and Transfer</u>	<u>Earth in the Universe</u>
<p>4.1 Understand the effects of environmental changes, adaptations and behaviors that enable animals (including humans) to survive in changing habitats.</p> <p>4.L.1.1 Give examples of changes in an organism’s environment that are beneficial to it and some that are harmful.</p> <p>4.L.1.2 Explain how animals meet their needs by using behaviors in response to information received from the environment</p> <p>4.L.1.3 Explain how humans can adapt their behavior to live in changing habitats (For ex. Recycling wastes, establishing rain gardens, planting trees, and shrubs to prevent flooding and erosion).</p> <p>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.</p> <p>4.L.2 Understand food and the benefits of vitamins, minerals, and exercise.</p> <p>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.</p> <p>4.L.2.2 Explain the role of vitamins and minerals, and exercise in maintaining a healthy body.</p>	<p>4.P.2 Understand the composition and properties of matter before and after they undergo a change or interaction.</p> <p>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).</p> <p>4.P.2.2 Explain how minerals are identified using tests for the physical properties of hardness, color, luster, cleavage, and streak.</p> <p>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.</p> <p>4.E.2 Understand the use of fossils and changes in the surface of the earth as evidence of the history of the Earth and its changing life forms.</p> <p>4.E.2.1 Compare fossils (including molds, casts, and preserved arts of plants and animals) to one another and to living organisms.</p> <p>4.E.2.2 Infer ideas about Earth’s early environments from fossils of plants and animals that lived long ago.</p> <p>4.E.2.3 Give examples of how the surface of earth changes due to slow processes such as erosion and weathering, and rapid processes such as landslides, volcanic eruptions, and earthquakes.</p>	<p>4.P.1 Explain how various forces affect the motion of an object.</p> <p>4.P.1.1 Explain how magnets interact with all things made of iron and with other magnets to produce motion without touching them.</p> <p>4.P.1.2 Explain how electrically charged objects push or pull on other electrically charged objects and produce motion.</p> <p>4.P.3 Recognize that energy takes various forms that may be grouped based on their interaction with matter.</p> <p>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.</p> <p>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.</p>	<p>4.E.1 Explain the causes of day and night and phases of the moon.</p> <p>4.E.1.1 Explain the cause of day and night based on the rotation of Earth and its axis.</p> <p>4.E.1.2 Explain the monthly changes in the appearance of the moon, based on the moon’s orbit around the earth.</p>