

## NGSS Storyline - Eugene - Physical Science Modules

	<b>K</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
	<b>Materials &amp; Motion</b>	<b>Sounds and Light</b>	<b>Solids and Liquids</b>	<b>Motion and Matter</b>	<b>Energy</b>	<b>Mixtures and Solutions</b>
<b>ESS Performance Expectations</b>	<p><b>K-PS2-1</b> Plan and conduct an investigation to compare the effects of different strengths or different directions of pushes and pulls on the motion of an object.</p> <p><b>K-PS2-2</b> Analyze data to determine if a design solution works as intended to change the speed or direction of an object with a push or a pull. *</p> <p><b>K-PS3-1</b> Make observations to determine the effect of sunlight on Earth's surface.</p> <p><b>K-PS3-2</b> Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area. *</p>	<p><b>1-PS4-1</b> Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.</p> <p><b>1-PS4-2</b> Make observations to construct an evidence-based account that objects can be seen only when illuminated.</p> <p><b>1-PS4-3</b> Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light.</p> <p><b>1-PS4-4</b> Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance. *</p>	<p><b>2-PS1-1</b> Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.</p> <p><b>2-PS1-2</b> Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose. *</p> <p><b>2-PS1-3</b> Make observations to construct an evidence-based account of how an object made of a small set of pieces can be disassembled and made into a new object.</p> <p><b>2-PS1-4</b> Construct an argument with evidence that some changed caused by heating or cooling can be reversed and some cannot.</p>	<p><b>3-PS2-1</b> Plan and conduct an investigation to provide evidence of the effects of balanced and unbalanced forces on the motion of an object.</p> <p><b>3-PS2-2</b> Make observations and/or measurements of an object's motion to provide evidence that a pattern can be used to predict future motion.</p> <p><b>3-PS2-3</b> Ask questions to determine cause and effect relationships of electric or magnetic interactions between two objects not in contact with each other.</p> <p><b>3-PS2-4</b> Define a simple design problem that can be solved by applying scientific ideas about magnets. *</p>	<p><b>4-PS3-1</b> Use evidence to construct an explanation relating the speed of an object to the energy of that object.</p> <p><b>4-PS3-2</b> Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.</p> <p><b>4-PS3-3</b> Ask questions and predict outcomes about the changes in energy that occur when objects collide.</p> <p><b>4-PS3-4</b> Apply scientific ideas to design, test, and refine a device that converts energy from one form to another. *</p> <p><b>4-PS4-1</b> Develop a model of waves to describe patterns in terms of amplitude and wavelength and that waves can cause objects to move.</p> <p><b>4-PS4-2</b> Develop a model to describe that light reflecting from objects and entering the eye allows objects to be seen.</p> <p><b>4-PS4-3</b> Generate and compare multiple solutions that use patterns to transfer information. *</p>	<p><b>5-PS1-1</b> Develop a model to describe that matter is made of particles too small to be seen.</p> <p><b>5-PS1-2</b> Measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating, cooling, or mixing substances, the total weight of matter is conserved.</p> <p><b>5-PS1-3</b> Make observations and measurements to identify materials based on their properties.</p> <p><b>5-PS1-4</b> Conduct an investigation to determine whether the mixing of two or more substances results in new substances.</p> <p><b>5-PS2-1</b> Support an argument that the gravitational force exerted by Earth on objects is directed down.</p> <p><b>5-PS3-1</b> Use models to describe that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun.</p>