

Science Grade 2 Scope & Sequence

Time Frame	Unit	NGSS Standard(s)/Outcome(s)	Essential/Guiding Questions
	<p style="text-align: center;">Matter and Its Interactions</p>	<p>2-PS1-2. Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose.</p> <p>2-PS1-1 Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.</p> <p>2-PS1-4. Construct an argument with evidence that some changes caused by heating or cooling can be reversed and some cannot.</p>	<ul style="list-style-type: none"> ● What processes do people use when they encounter problems in their daily lives? ● How does a structure's purpose affect the materials used for its construction? ● How do we use natural resources to solve problems? ● What do scientists and engineers do to help them solve problems? ● What process do people go through to solve problems? ● How can we evaluate the effectiveness of products we create? ● How do we apply prior knowledge to solve real world problems?
	<p style="text-align: center;">Earth Systems</p>	<p>2-ESS1-1 Use information from several sources to provide evidence that Earth events can occur quickly or slowly.</p> <p>2-ESS2-1 Compare multiple solutions designed to slow or prevent wind or water from changing the shape of the land.</p> <p>2-ESS2-2 Develop a model to represent the shapes and kinds of land and bodies of water in an area.</p> <p>2-ESS2-3 Obtain information to identify where water is found on Earth and that it can be solid or liquid.</p>	<ul style="list-style-type: none"> ● How does land change? ● Why does land change? ● How does land change quickly? ● How does land change slowly? ● How can maps be used to display information about different land features? ● What role does wind and water have in shaping the land? ● Where is water found on Earth? ● What are the different forms of water on Earth? ● What is erosion? ● How can erosion be prevented?

Waves

1-PS4-1 - Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.

1-PS4-2 - Make observations to construct an evidence-based account that objects in darkness can be seen only when illuminated.

1-PS4-3 - Plan and conduct investigations to determine the effect of placing objects made with different materials in the path of a beam of light.

1-PS4-4 - Use tools and materials to design and build a device that uses light or sound to solve a problem of communicating over a distance.

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- How is sound created?
- How can sound be changed?
- How can sound make materials move?
- How does light affect visibility?
- What are sources that give off their own light?
- What produces its own light?
- What happens when objects made of different materials are placed in the path of a beam of light?
- Can materials change the direction of light?
- How do observations provide evidence to answer the question under investigation?
- What process do people go through to solve problems?
- What makes some materials better than others for a particular job?
- How can we evaluate the effectiveness of products we create?
- How do we apply prior knowledge to solve real world problems?