

Subject: Science					Grade: 2
Timeframe	Topic	Content	Resources	Standards	Assessments
September	Physical Science Properties and Phases of Matter	Material Properties, Classification, Changes and phases of matter. Students will determine the use of a set of unique set of materials. They will carry out an investigation to test if a material is an insulator and analyze data. They will conduct an investigation that considers the cause and effect of heat on a meltable material.	Mystery Science : Material Magic Why do we wear clothes? Can you really fry an egg on a hot sidewalk? Why are so many toys made of plastic/	2-PS1-1 2-PS1-2 PS 1-4	Discuss matter that is insulator or conducts heat. End of unit questions.
October	Physical Science Material inventions, Engineering	Students will use a new material to design solutions to solve a real life problem. They will use paper to build a tower to consider the relationship between a material's properties and its uses.	Mystery Science: Material Magic What materials might be invented in the future? Could you build a house made out of paper?	2-PS1-1 2PS1-2 K-2ETS 1-1 K-2ETS 1-2 1-3	Design and build a tall paper tower. Create an ad for a new material.
November - December	Matter and Its Interactions	Describe and classify different kinds of materials by observable properties. Test different materials, analyze data to determine which materials are best suited for an intended purpose	Engineering is Elementary - A Work in Process: Improving a Play Dough Process	2PS1-1 2PS1-2	Follow Engineer-ing Design Process to produce good quality play dough. Teacher directed STEM Activites
January	Earth Science	Identify patterns about where rivers start and end on Earth's surface.	Mystery Science: Work of Water	ESS1-1 ESS2-1	Inquire where rivers begin

	Mapping Earth's Surface Landforms	Explore changes to the earth's surface happen slowly through process of erosion.	If you floated down a river, where would you end up? Why is there sand at the beach?	ESS2-2 ESS2-3	and end. Discuss effect of rocks tumbling in a river. End of unit questions.
February	Earth Science Erosion and Engineering	Consider how water has changed the surface of the land. Design solution to that mimic natural structures that lessen the impact of landslides.	Mystery Science- Work of Water What's strong enough to make a canyon? How can you stop a landslide?	ESS1-1 ESS2-1 K-2ETS 1-1 1-2 1-3	Create models of canyons. Discuss problem solutions. End of unit questions.
March	Earth Science Earth's Systems	Investigate and compare multiple solutions designed to prevent water from changing the shape of the land. Use maps to decide the safest place to build a tarpul. Test and analyze data to compare the strengths and weaknesses of each area.	Engineering is Elementary- A Stick in the Mud:Evaluating a Landscape	ESS2-4 2ESS2-1 2ESS2-2 ESS2-3	Discuss and analyzeddata to choose best site for a tar-pul. Student booklet.
April	Life Science Plant Adventure Seed Dispersal Rocks, Water and Minerals	Plants need sunlight, water and air to grow. Demonstrate knowledge by collecting and data to show how seeds are dispersed. Consider that the structure of plants help them get the water and minerals they need to survive.	Mystery Science: Plants How did a tree travel halfway around the world? Do plants eat dirt? Why do trees grow so tall?	2LS2-1 2LS2-2 2LS4-1	End of unit questions and observed results of plantings.
May	Life Science Adaptations and Habitats	Demonstrate knowledge by collecting and using data Develop a model to show the impact of the sun and water on survival of plants	Mystery Science- Should you water a cactus? Where do plants grow best?	2LS2-1 2LS2-1	End of unit questions and talks

		in different habitats.	How many different kinds of animals are there?		
June	<p>Life Science -Animal Adventures</p> <p>Biodiversity, Classification & Habitats</p>	<p>Evaluate and communicate information by sorting animals by traits.</p> <p>Analyze sounds from 2 different habitats to determine which frogs live there.</p> <p>Develop a model of a bird feeder that meets the needs of a particular bird.</p>	<p>Mystery Science:</p> <p>How many different kinds of animals are there?</p> <p>Why do frogs say “ribbit”?</p> <p>How could you get more birds to visit a bird feeder?</p>	2LS4-1	End of unit questions