TOPIC & MONTH	CONTENT	SKILLS	ASSESSMENT	Essential Question
Engineering Design Dates	 Asking Questions and Defining Problems Developing and Using Models Analyzing and Interpreting Data ETS1.A Defining and Delimiting Engineering Problems ETS1.B Developing Possible Solutions ETS1.C Optimizing the Design Solution readings " 	 A situation that people want to change or create can be approached as a problem to be solved through engineering. Asking questions, making observations, and gathering information are helpful in thinking about problems. Before beginning to design a solution, it is important to clearly understand the problem. Vocab: 		
	 K-2-ETS1-1. Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool. K-2-ETS1-2. Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem. K-2-ETS1-3. Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs. 			

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Matter and Its Interactions Dates	 Planning and Carrying Out Investigations Analyzing and Interpreting Data PS1.A Structure and Properties of Matter readings _" 	 Different kinds of matter exist and many of them can be either solid or liquid, depending on temperature. Matter can be described and classified by its observable properties. Vocab: 		
		estigation to test the claim that different kinds	of matter exist as either solid	d or liquid, depending on

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Forces and Interactions: Pushes and Pulls Dates	motion of an object.	 Pushes and pulls can have different strengths and directions. Pushing or pulling on an object can change the speed or direction of its motion and can start or stop it. When objects touch or collide, they push on one another and can change motion. (NYSED) A push or a pull may cause stationary objects to move, and a stronger push or pull in the same or opposite direction makes an object in motion speed up or slow down more quickly. A situation that people want to change or create can be approached as a problem to be solved through engineering. Such problems may have many acceptable solutions. Vocab: 	_	

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Weather and Climate Dates	 K-ESS3-2. Ask questions to obtain in K-PS3-1. Make observations to determine 	 Sunlight warms Earth's surface. Weather is the combination of sunlight, wind, snow or rain, and temperature in a particular region at a particular time. People measure these conditions to describe and record the weather and to notice patterns over time. Some kinds of severe weather are more likely than others in a given region. Weather scientists forecast severe weather so that the communities can prepare for and respond to these events. Asking questions, making observations, and gathering information are helpful in thinking about problems. Vocab: 	ecasting to prepare for, and i	·