

STEM Curriculum Map_SY20-21

Mrs. Askuvich

	Quarter 1	Quarter 2	Quarter 3	Quarter 4
K		<p>What is the Engineering Design Cycle?</p> <p>How can we use observations to identify a problem?</p> <p>How can we use the Engineering Design Cycle to help us solve problems creatively?</p>		<p>How can we use our understanding of properties of materials to design a solution to a problem?</p> <p>How can we use our understanding of properties of materials to design a solution to a problem?</p> <p>How can we compare and test designs to find the best design solution?</p>
1	<p>What is the Engineering Design Cycle?</p> <p>How can we use observations to identify a problem?</p> <p>How can we use the Engineering Design Cycle to help us solve problems creatively?</p>		<p>How can we use our understanding of properties of materials to design a solution to a problem?</p> <p>How can we use our understanding of properties of materials to design a solution to a problem?</p> <p>How can we compare and test designs to find the best design solution?</p>	
2		<p>What is the Engineering Design Cycle?</p> <p>How can we use observations to identify a problem?</p> <p>How can we use the Engineering Design Cycle to help us solve problems creatively?</p>		<p>How can we use our understanding of properties of materials to design a solution to a problem?</p> <p>How can we use our understanding of properties of materials to design a solution to a problem?</p> <p>How can we compare and test designs to find the best design solution?</p>

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3		<p>How can we build community while we learn remotely?</p> <p>How can we use the Engineering Design Cycle to help us solve problems creatively?</p> <p>How can we follow a set of criteria and constraints to design a solution to a problem?</p>		<p>How can we follow a set of criteria and constraints to design a solution to a problem?</p> <p>How can we use research to help us design a better solution?</p> <p>How can we test and optimize our design to develop the best possible solution?</p>
4	<p>How can we build community while we learn remotely?</p> <p>How can we use the Engineering Design Cycle to help us solve problems creatively?</p> <p>How can we follow a set of criteria and constraints to design a solution to a problem?</p>		<p>How can we follow a set of criteria and constraints to design a solution to a problem?</p> <p>How can we use research to help us design a better solution?</p> <p>How can we test and optimize our design to develop the best possible solution?</p>	
5		<p>How can we build community while we learn remotely?</p> <p>How can we use the Engineering Design Cycle to help us solve problems creatively?</p> <p>How can we follow a set of criteria and constraints to design a solution to a problem?</p>		<p>How can we follow a set of criteria and constraints to design a solution to a problem?</p> <p>How can we use research to help us design a better solution?</p> <p>How can we test and optimize our design to develop the best possible solution?</p>
6	<p>How can we build community while we learn remotely?</p> <p>How can we define the criteria and</p>		<p>How can we analyze data from tests to compare several design solutions to identify and combine the best characteristics of each so</p>	

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	<p>constraints of a design problem?</p> <p>How can we evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints?</p>		<p>that they can be combined into a new solution that meets the criteria?</p> <p>How can we design an iterative process to test the solutions and optimize them?</p>	
7		<p>How can we build community while we learn remotely?</p> <p>How can we define the criteria and constraints of a design problem?</p> <p>How can we evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints?</p>	<p>How can we use what we know about electricity to construct an alarm?</p>	<p>How can we analyze data from tests to compare several design solutions to identify and combine the best characteristics of each so that they can be combined into a new solution that meets the criteria?</p> <p>How can we design an iterative process to test the solutions and optimize them?</p>
8	<p>How can we build community while we learn remotely?</p> <p>How can we define the criteria and constraints of a design problem?</p> <p>How can we evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints?</p>		<p>How can we analyze data from tests to compare several design solutions to identify and combine the best characteristics of each so that they can be combined into a new solution that meets the criteria?</p> <p>How can we design an iterative process to test the solutions and optimize them?</p>	<p>How can we use our understanding of stability and motion to maximize a glider's ability to deliver relief aid?</p>