

<b>QUARTER</b>	<b>ESSENTIAL STANDARD</b>	
1st Quarter	<b>Demonstrate Safety in the Classroom</b>	
	Identify tools and equipment used in the STEM program	G.01
	Recognize potential hazards when working with classroom equipment, tools and supplies	G.02
	Demonstrate safe and correct operating procedures when using equipment, tools and supplies (NOTE: Students must score 100% accuracy on safety evaluations when using equipment, tools and supplies)	G.03
1st Quarter	<b>Demonstrate Understanding of the Design Process</b>	
	Describe and apply the design process to solve a real world problem	A.01
	Define the criteria and constraints of a design problem	A.02
	Generate concepts and brainstorm while documenting research	A.03
	Evaluate possible design solutions to identify the one that best meets the design criteria and constraints	A.04
	Use appropriate tools or equipment to construct a model or prototype of the solution	A.05
	Test prototype by collecting and analyzing data	A.06
	Redesign to optimize solution.	A.07
2nd Quarter	<b>Demonstrate 21st Century Skills</b>	
	Demonstrate effective team working skills	F.01
	Demonstrate the ability to effectively collaborate and communicate with peers	F.02
	Demonstrate effective organization management skills	F.03
2nd Quarter	<b>Prepare for a Career in Science, Technology, Engineering and Mathematics (STEM)</b>	
	Complete a career interest inventory	E.01
	Investigate careers indicated in the career interest inventory	E.02
	Develop an education plan for careers of interest	E.03
3rd Quarter	<b>Demonstrate Safety in the Classroom</b>	
	Identify tools and equipment used in the STEM program	G.01
	Recognize potential hazards when working with classroom equipment, tools and supplies	G.02

	Demonstrate safe and correct operating procedures when using equipment, tools and supplies (NOTE: Students must score 100% accuracy on safety evaluations when using equipment, tools and supplies)	G.03
3rd Quarter	<b>Demonstrate Understanding of the Design Process</b>	
	Describe and apply the design process to solve a real world problem	A.01
	Define the criteria and constraints of a design problem	A.02
	Generate concepts and brainstorm while documenting research	A.03
	Evaluate possible design solutions to identify the one that best meets the design criteria and constraints	A.04
	Use appropriate tools or equipment to construct a model or prototype of the solution	A.05
	Test prototype by collecting and analyzing data	A.06
	Redesign to optimize solution.	A.07
4th Quarter	<b>Demonstrate 21st Century Skills</b>	
	Demonstrate effective team working skills	F.01
	Demonstrate the ability to effectively collaborate and communicate with peers	F.02
	Demonstrate effective organization management skills	F.03
4th Quarter	<b>Prepare for a Career in Science, Technology, Engineering and Mathematics (STEM)</b>	
	Complete a career interest inventory	E.01
	Investigate careers indicated in the career interest inventory	E.02
	Develop an education plan for careers of interest	E.03