



Lesson / Unit Description:			Time Fram	e:
What is the real world connectio	2 What problem are students as	luing?		

What is the real-world connection? What problem are students solving?

Science Standards Addressed:	Technology and Computer Science Standards Addressed:	Math Standards Addressed:

If standards addressed are not on grade level, educators assume responsibility to address grade-level standards.

STUDENT PRACTICES					
 Science and Engineering Practices Asking Questions and Defining Problems Developing and Using Models Planning and Carrying Out Investigations Analyzing and Interpreting Data Using Mathematics and Computational Thinking Engaging in Argument from Evidence Obtaining, Evaluating, and Communicating Information 	 Technology Practices Access to up-to-date and primary source material Methods of collecting/recording data Ways to collaborate with students, teachers, and experts around the world Opportunities for expressing understanding via multimedia Learning that is relevant and assessment that is authentic Training for publishing and presenting their new knowledge 	 Mathematical Habits of Mind Make sense of problems and persevere to solve them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with Mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure. Look for and express regularity in repeated reasoning. 			
Check at least 1. Arts Domains □ Create □ Connect	Check at least 1. □ Explore □ Perform	Check at least 1.			
Engineering Design Process Identify the Need & Constraints Research the Problem Develop Possible Solutions	 Select a Promising Solution Build a Prototype Test and Evaluate Prototype 	□ Redesign as Needed Check at least 3.			

Literacy Connections:

Other curricular wand community-based (real-world) connections:

POST-LESSON REFLECTION

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Practices that were employed or observed, but weren't planned:

STUDENT PRACTICES					
 Science and Engineering Practices Asking Questions and Defining Problems Developing and Using Models Planning and Carrying Out Investigations 	 Technology Practices Access to up-to-date and primary source material Methods of collecting/recording data Ways to collaborate with students, teachers, and experts around the world 	 Mathematical Habits of Mind Make sense of problems and persevere to solve them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. 			
 Analyzing and Interpreting Data Using Mathematics and Computational Thinking Engaging in Argument from Evidence Obtaining, Evaluating, and Communicating Infomation 	 Opportunities for expressing understanding via multimedia Learning that is relevant and assessment that is authentic Training for publishing and presenting their new knowledge 	 Model with Mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure. Look for and express regularity in repeated reasoning. 			
Check at least 1.	Check at least 1.	Check at least 1.			
Engineering Design Process I Identify the Need & Constraints Research the Problem Develop Possible Solutions	 Select a Promising Solution Build a Prototype Test and Evaluate Prototype 	□ Redesign as Needed Check at least 3.			

The part of my lesson that went well was...

The part of my lesson that I would do differently next time was...

STEAM MINDSETS AND SKILLSETS PRACTICED

- □ Curiosity and Imagination
- □ Growth Mindset
- \square Courage and Risk-taking
- \square Persistence and Grit
- □ Opportunity-Seeking

- \Box Problem-Solving
- 🗆 Optimism
- \square Resourcefulness and Adaptability
- \square Empathy and Altruism
- \square Creativity

Teamwork
 Design Thinking
 Prototyping
 Public Speaking

