

Cowan Road Middle School Lesson Planning Guide

Teacher: Johnson

Subject: Technology

Grade: 7

Unit Name: Inventions & Innovation (Car Crash Safety) Length: 3 weeks

Dates:

Step 1: List GPS standards	<p>ENGR-EET-4: Students will demonstrate an understanding for a technological world through hands-on projects.</p> <p>a) Apply the engineering design process</p> <p><i>M6P1 – Students will solve problems (using appropriate technology).</i></p> <p><i>S6CS2 – Students will use standard safety practices for all classroom laboratory and field investigations.</i></p> <p><i>S6CS4 – Students will use tools and instruments for observing, measuring, and manipulating equipment and materials in scientific activities.</i></p> <p>STANDARDS FOR TECHNOLOGY LITERACY:</p> <p><i>Standard 11 – Students will develop the abilities to apply the design process.</i></p> <p><i>Standard 12 – Students will develop the abilities to use and maintain technological products and systems.</i></p> <p><i>Standard 13 – Students will develop the abilities to assess the impact of products and systems.</i></p> <p>ENGR-STEM 4 – Students will apply principles of science, technology, engineering, mathematics, interpersonal communication, and teamwork to the solution of technological problems.</p> <p>ENGR-STEM 7 – Students will develop leadership and interpersonal problem-solving skills through participation in co-curricular activities associated with the Technology Student Association.</p>	
Step 2: Determine what students should know and be able to do (Include essential vocabulary)	Know: The following terms: Invention, innovation, prototype, quality control, assembly line, and flexible manufacturing	Do: Design an egg car with safety precautions for a prepared crash.
Step 3: Identify essential questions	EQ: What is an invention? What is innovation? What is a prototype? What is quality control? What is an assembly line?	