

Engineering

Exploring Engineering and Technology – Grade 6

Lesson Plan 3/18/20

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| Teacher/Subject: McCoy/Engineering | Date: Wednesday, March 18 |
| Standard: MS-ENGR-EET-2: | <p>Demonstrate proper safety techniques and tool usage in the Engineering and Technology Laboratory.</p> <p>2.1 Accurately interpret and adhere to safety signs, symbols, and labels.</p> <p>2.2 Demonstrate and incorporate safe laboratory procedures in lab, shop, and field environments.</p> <p>2.3 Identify, select, and use appropriate Personal Protective Equipment, follow work area organization procedures and follow Standard Operating Procedures when performing work.</p> <p>2.5 Demonstrate safe use of tools and machines.</p> |
| MS-ENGR-EET-3: | <p>Identify engineering and technology and its impact on society.</p> <p>3.1 Explore the historical impacts of engineering & technology.</p> <p>3.2 Examine the effects of engineering & technology on society including social, cultural, political, economic and environmental impacts.</p> <p>3.3 Assess the impact(s) of technological products and systems.</p> |
| MS-ENGR-EET-5: | <p>Invent and/or innovate a technological product or system that addresses a societal need using the Engineering Design Process.</p> <p>5.1 Research a societal problem</p> |
| MS-ENGR-EET-1: | <p>Demonstrate employability skills required by business and industry.</p> <p>1.1 Communicate effectively through writing, speaking, listening, reading, and interpersonal abilities.</p> <p>1.2 Demonstrate creativity by asking challenging questions and applying innovative procedures and methods.</p> |
| Objective: | <p>1. Gain an understanding of the wide scope of engineering fields and a foundation for future exploration.</p> <p>2. Learn the structure of standard safety signage, including icons and colors.</p> <p>3. Practice reading, analyzing, and writing technological content.</p> |
| Student Activity: | <p>Activity 1: View Crash Course Engineering: Preview and Crash Course Engineering: What is Engineering?</p> <p>Also linked on website: nwengineering.weebly.com, under <i>Content</i> ⇒ <i>Resources</i></p> <p>Activity 2: Safety Sign Project: Create two safety signs using the proper format and colors as defined in the ANSI z535 standard documents provided.</p> <p>Sign 1: Alert Style (ex. “Caution, Teenager”)</p> <p>Sign 2: Information (ex. “Turtle Nesting Area”)</p> <p>Homework 1: Begin the first writing article assignment: <i>Engineering Disaster</i> located under <i>Content</i> ⇒ <i>Writing, Quarter 4</i>.</p> |
| Resources | <p>Class website with all resource links nwengineering2019.weebly.com.</p> <p>Videos: Crash Course Engineering: Preview Crash Course Engineering: What is Engineering?</p> <p>ANSI z535 Standard Resources on <i>Content</i> ⇒ <i>Files</i> under SAFETY PROJECT.</p> <p>safety_label_format.pdf selecting_the_right_header.pdf use_of_safety_symbols.pdf</p> <p>Writing assignments are defined under <i>Content</i> ⇒ <i>Writing, Quarter 4</i>.</p> |
| Help Session Hours | <p>Help session hours between 10:00 - 12:00, Wednesday. Answers to requests will be immediate. Requests at other times answered as soon as possible.</p> |