Engineering Technological Systems - Grade 8 Lesson Plan 3/18/20

Teacher/Subject: McC	Coy/Engineering	Date: Wednesday, March 18
Standard:		Demonstrate proper safety techniques and tool usage in the Engineering and
Startati G.	1115 21 (611 15 2)	Technology Laboratory.
		2.1 Accurately interpret and adhere to safety signs, symbols, and labels.
		2.2 Demonstrate and incorporate safe laboratory procedures in lab, shop, and field
		environments.
		2.3 Identify, select, and use appropriate Personal Protective Equipment, follow work area organization procedures and follow Standard Operating Procedures when
		performing work.
		2.5 Demonstrate safe use of tools and machines.
	MS-ENGR-TS-3:	Examine the variety of components that make up several examples of a system
		model.
		3.1 Understand the components of a systems model: input, process, output feedback.
		3.2 Compare open-looped and closed-looped systems.
		3.3 Understand and identify the resources of technology.
		3.4 Explore a variety of system types. (i.e. mechanical, fluid, etc.)
	MS.ENGR.TS.6.	Describe how technological systems continuously improve from one iteration to
	1415-E14GK-15-0.	another.
		6.1 Illustrate the evolution of a variety of technological systems.
		6.2 Investigate the cause of system failure or improvement.
		6.3 Analyze the reason for the evolution of technological systems.
	MC ENCD TC 1.	Demonstrate employability skills required by business and industry.
	MS-ENGK-15-1:	1.1 Communicate effectively through writing, speaking, listening, reading, and
		interpersonal abilities.
		1.2 Demonstrate creativity by asking challenging questions and applying innovative
		procedures and methods.
Objective:		1. Gain an understanding of the wide scope of engineering fields and a foundation for
		future exploration.
		2. Learn the structure of standard safety signage, including icons and colors.
		3. Practice reading, analyzing, and writing technological content.
Student Activity:		Activity 1: View Crash Course Engineering: Preview and
		Crash Course Engineering: What is Engineering?
		Also linked on website: <u>nwengineering.weebly.com</u> , under Content ⇒ Resources
		Activity 2: Safety Sign Project: Create two safety signs using the proper format and
		colors as defined in the ANSI z535 standard documents provided.
		Sign 1: Alert Style (ex. "Caution, Teenager")
		Sign 2: Information (ex. "Turtle Nesting Area")
		Homework 1: Begin the first writing article assignment: <i>Engineering Disaster</i> located
		under Content Writing, Quarter 4.
Resources		Class website with all resource links <u>nwengineering2019.weebly.com</u> .
		Videos: <u>Crash Course Engineering: Preview</u>
		Crash Course Engineering: What is Engineering?
		ANSI z535 Standard Resources on <i>Content</i> \Rightarrow <i>Files</i> under SAFETY PROJECT.
		safety_label_format.pdf
		selecting_the_right_header.pdf
		use_of_safety_symbols.pdf
		Writing assignments are defined under Content \Rightarrow Writing, Quarter 4.
Help Session Hours		Help session hours between 10:00 - 12:00, Wednesday. Answers to requests will be
r		immediate. Requests at other times answered as soon as possible.