DUTCHTOWN MIDDLE SCHOOL

Grade Level: 6th – 8th
Subject: Engineering Technology
Week #9
March 7th – March 11th
Professional Learning Implementation (☐ yes/ no) Explain:

PLC#1—What do students need to know and be able to do? **Students will need to know and understand rules, procedures, and consequences.**
PLC#2—How will we know when they have learned it? **When students can provide feedback to me of the essential questions.**
PLC#3—What will we do when they haven't learned it? **I will reiterate classroom rules to those students**
PLC#4—What will we do when they already know it? **We will move on to the next assignment**

MONDAY

STANDARD

6th Grade – N/A

7th Grade – N/A

8th Grade – N/A

OPENING (warm-up)

6th Grade –
1. Explain the purpose of a production plan.
2. Explain how we narrow the possible solutions to 3 to 5 workable solutions.

7th Grade –
1. What are the three tools that you need to use to be successful when using Google SketchUp?
2. Explain what it means to extrude an object in Google SketchUp.
3. Explain the purpose of a production plan.

8th Grade –
1. Explain the difference(s) between a hybrid robot and a teleoperated robot.
2. Explain why it is important to understand the criteria of a design.

ESSENTIAL QUESTION

6th Grade – What questions do I have regarding the review sheet?

7th Grade – What questions do I have regarding the review sheet?

8th Grade – What questions do I have regarding the review sheet?

WORK SESSION (activities/assignments)

6th Grade
1. The teacher will answer questions about the review sheet.
2. If time permits, students will work on the robot arm project.

7th Grade
1. The teacher will answer questions about the review sheet.
2. Students will work on completing the résumé.
3. If time permits, students will work on Google SketchUp.

8th Grade:
1. The teacher will answer questions about the review sheet.
2. Students will work on completing the résumé.
3. If time permits, students will work on the robot.

Closing (evaluation):

HOMEWORK
6th Grade 1. Work on résumé. 2. Study for EOTT.
7th Grade 1. Work on résumé. 2. Study for EOTT.
8th Grade 1. Work on résumé. 2. Study for EOTT.

WEDNESDAY
STANDARD
6th Grade
7th Grade
8th Grade
OPENING (warm-up)
6th Grade
7th Grade 1. How do you place dimensions on an object? 2. Explain the process for creating a cylinder with a radius of 5 inches and height of 10 inches.
8th Grade
ESSENTIAL QUESTION
6th Grade
7th Grade – How do I determine whether the constructed object is drawn to the correct requirement?
8th Grade
WORK SESSION (activities/assignments)
6th Grade:
7th Grade: 1. The teacher will review the study guide with students. 2. The teacher will return quiz results with students. 3. Students will work on Google SketchUp.
8th Grade:
Closing (evaluation):
HOMEWORK
6th Grade
7th Grade
8th Grade

FRIDAY
STANDARDS
6th Grade
7th Grade
8th Grade
OPENING
6th Grade
7th Grade

8th Grade

WORK SESSION (activities/assignments)
6th Grade
7th Grade
8th Grade
Closing

HOMEWORK
6th Grade
7th Grade
8th Grade

BEST PRACTICE STRATEGIES:	ACCOMMODATIONS:
☒ Peer Evaluation/ Tutoring	☒ Small group instruction
☒ Graphic Organizer	☒ Test read aloud or clarified directions
☐ Conferencing	☒ Extended time allowance
☒ Review	☐ Reduced length of exams/assignments
☒ Assessment Rubrics	☐ Modified grading policy
☒ Student Self-Assessment	☐ Modified test
☒ Teacher Demonstration	☐ Open book test/take home tests
☒ Cooperative Grouping	☐ Calculator/adapted calculator
	☒ Study sheets
	☒ Other - assistive technology (use of novel on tape/cd

VOCABULARY
6th GRADE
Lab safety
Work ethic
Design
Constraints
Specifications
Engineering Design Process
7th GRADE
Prototype
2-Dimensional
3-Dimensional
Extrusion
Orbit
Pan
8th GRADE

Work ethic
Design
Constraints
Specifications
Engineering Design Process
Robotics
Electrical engineering
Mechanical engineering
Civil engineering

HIGHER ORDER THINKING SKILLS USED THIS WEEK	
Evaluation Synthesis Analysis Application Understanding Knowledge	☒ Evaluation ☒ Synthesis ☒ Analysis ☒ Application ☒ Understanding ☒ Knowledge