

1.11 Unit 1 Quiz and Prototype Presentations

Summary

Students complete Unit 1 by taking a quiz. As groups, they present their prototyped designs to the class.

Learning Objectives

After this class, students will be able to:

- Communicate the functionality and features of a designed solution.

Materials

None needed.

Time

80 minutes

Procedure/Pacing

1. Administer a quiz on this unit.
2. As a group, students present their design to the class. Their presentations should be graded using the Presentation Rubric below.

Rubric: (possible 4 points each)

- Clearly explain the functionality of the design.
- Explain how the design meets the design requirements.
- Discuss why this particular design was chosen over other designs you considered.
- Improvements made or recommended based on the prototype experience.
- What additional testing would be required before taking this design to manufacturing?

Points Possible: 20

3. As a class, discuss the different solutions to the original problem. Ask questions like: What are the pros and cons of the various designs? What suggestions might you have to improve a design? What questions might you have about a design?

Developed through a partnership between the University of Utah College of Engineering and Granite School District

In-Class Assignment

Assignment 1.11i: Final Prototype Presentation

Resources

Homework

Assignment 2.1h: Introduction to Civil Engineering

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and Granite School District**