

Name: _____

Aligned to the following standards:

CS.05; CCSS.SL.9-10.1; CCSS.SL.9-10.2; AG5; CRP.04; CRP.07; CRP.08; CRP.10

Product Design

Part 1

Directions:

Watch the video "What EXACTLY Is Product Design?" While you watch, answer the questions below. The video can be found at <https://www.youtube.com/watch?v=LckQ4VVjHDs>.

The video topic is ...

What exactly is product design in your own words?

What is an example the video shows of bad design?

Design is not simply how something _____; it's how it _____.

Summarize the video in one word.

What is an example of product design discussed in the video?

What is an example of product design in your everyday life?

A product designer determines how a product should work based on:

- 1.
- 2.

What are three careers in the Power, Structural and Technical Systems sector that would be needed for product design?

- 1.
- 2.
- 3.

The information in the video is important to me because ...

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Part 2

Directions:

Join your group from yesterday. In your group, on sketch paper, sketch out your product design. When done, answer the questions below.

1. What inspired your group's initial design concept?
2. How did you incorporate the customer's needs and challenges into your design?
3. Did everyone agree on the direction of the design? How were differing opinions handled?
4. Are there any aspects of your design that still need improvement or further discussion?
5. Would your product be appealing to the target audience? Why or why not?
6. What careers do you think are needed for designing products in the PST sector?

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Part 3

Directions:

1. Swap product sketches with another group.
2. In your group, fill out the evaluation form below.
3. When done, return the sketch and the feedback form to the group you evaluated.
4. Make changes to your sketch based on their feedback and answer the discussion questions below.

Discussion Questions:

1. What feedback from the evaluation form was most helpful?
2. Did any feedback surprise you? Why or why not?
3. What changes did your group make to the design based on the feedback?
4. How do you think these changes improve your product?
5. How did your group work together to respond to the feedback?
6. Were there any disagreements? If so, how were they resolved?
7. How does your revised design better meet the needs of the customer scenario?

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Product Design Sketch Evaluation Form

Group Evaluating:

Group Being Evaluated:

Evaluation Criteria:

1. Problem-Solving

- Does the design address the customer's problem effectively?
 - ☐ Yes
 - ☐ No
- Comments:

2. Target Audience

- Is the product well-suited for the intended target audience?
 - ☐ Yes
 - ☐ No
- Comments:

3. Features and Functionality

- Are the key features clear and functional?
 - ☐ Yes
 - ☐ No
- Comments:

4. Innovation

- Is the design creative or unique compared to existing solutions?
 - ☐ Yes
 - ☐ No
- Comments:

5. Clarity of Sketch

- Is the sketch clear and easy to understand?
 - ☐ Yes
 - ☐ No
- Comments:

6. Suggestions for Improvement

- List one or two suggestions for improving the design.
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