

ENGR 101 Adaptive Utensil Design Test Data & Design Review

NAMES:

Constraint Check

For a design to be considered “successful,” it needs to meet all design constraints

Constraint	Description	Yes or No?
Materials	Used only provided materials	
Tools Available	Constructed with provided tools	
Size	12” in any dimension	
Safety	Does not pose a safety hazard	
Time	Built during class time	

Dexterity Challenge Test (Oven mitt & non-dominant hand)

Task	Completed? (Y/N)	Observations
Transfer 2 gummy worms		
Scoop and transfer 1 cup of kinetic sand		
Cut, spear, & transfer clay		

Performance Evaluation

Criteria	Rating (1-5)	Evidence for your rating
Grip		
Control		
Comfort		
Overall Effectiveness		
Aesthetics		
Innovation & Creativity		

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Score Guide: 1 = Poor, 2 = Fair, 3 = Good, 4 = Very Good, 5 = Excellent

Durability Test

Drop Number	Observations (damage, breakage, design flaws)
1	
2	

Did the utensil remain functional after the drop test? Yes / No

Make-Do-Build: Introductory Design Challenge – CANVAS ASSIGNMENT

Electronic submissions only, one submission per team

- 1. Include a scanned copy of this worksheet (3 points)**
- 2. Include a Project Summary (4 points)**
 - Design Overview
 - Briefly describe your adaptive eating utensil design
 - Highlight key features that make your design inclusive and functional
 - Visual Documentation
 - Include 3-5 clear photographs of your final prototype:
 - One showing the entire utensil
 - Close-ups of key features or innovative elements
 - At least one image demonstrating how the utensil is held or used
- 3. Write a Design Review (4 points)**

Answer these questions in complete sentences:

 - What worked well in your design?
 - What aspects of your design need improvement?
 - How might you modify your design based on the test results?
 - Did you notice any unexpected challenges or benefits of your design during testing?
 - How has this project changed your perception of 'normal' utensil design?

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- How did you incorporate elements of the inclusive mindset (awareness, empathy, openness, proactivity) in your design? Be specific, give examples. *Hint: refer to the 4 bullets at the bottom of page 6 of the design challenge handout.*