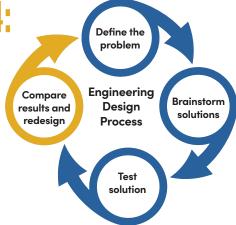
**ENGINEERING DESIGN PROCESS PART 4: COMPARE RESULTS AND REDESIGN** 

Once an engineer has defined a problem, brainstormed solutions, and tested solutions, they are ready to begin the fourth step of the engineering design process: *compare results and redesign*. In this step, an engineer compares their test results to those of other engineers working to solve the same problem. The engineers collaborate to design and test an optimized solution that combines the best features of each prototype.



Answer the questions below to compare prototypes and develop an optimized solution to the problem you defined in Part 1.

- 1. Share the following with your peers:
  - What is your most successful prototype? Show the physical model or a sketch of the design.
  - What data shows that this prototype is the most successful?
  - Why do you think this prototype best meets the criteria of the design challenge?
- 2. Think about what you learned from your peers.
   a. Which design best meets the criteria of the design challenge? Explain why you think this design is the most successful.
   b. What are some features of your peers' designs that work well to meet the criteria of the design challenge? Explain your reasoning for each. List at least one feature from each design you heard about.

c. What are some design features that do not help the design performance? Explain your reasoning.

ame	Date	Page
NGINEERING DESIGN PRO	DCESS PART 4: COMPARE RESULT	S AND REDESIGN
ep going! Answer the questions be	elow.	
	at incorporates the most effective design featoments, such as labels, explanations, measuremour plan.	
Construct the optimized prototypedata in the space below.	e you sketched in question 3. Test the prototype	e and record relevant
	e you sketched in question 3. Test the prototype	e and record relevant
	e you sketched in question 3. Test the prototype	e and record relevant
	e you sketched in question 3. Test the prototype	e and record relevant
	e you sketched in question 3. Test the prototype	e and record relevant
	e you sketched in question 3. Test the prototype	e and record relevant
	e you sketched in question 3. Test the prototype	e and record relevant
	e you sketched in question 3. Test the prototype	e and record relevant
data in the space below.		e and record relevant
data in the space below.	e you sketched in question 3. Test the prototype orm as well as expected? Why or why not?	e and record relevant
data in the space below.		e and record relevant
data in the space below.		e and record relevant

Remember that the engineering design process is cyclical and iterative! Engineers repeat the steps as many times as needed until the prototype meets or exceeds the criteria of the project.