## **STUDENT GUIDE** EXPLORE LESSON 22





## **Part 1: Our Motivation**

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Record the next steps we will take in the engineering design process.						
€¶	Part 2: Brainstorming Criteria and Constraints					
Generate a list of <u>criteria</u> that successful designs should meet. Be sure to consider criteria that will best meet the needs of multiple stakeholders, such as dairy farmers, consumers of dairy products, and the environment.						

Next, brainstorm possible examples of <u>constraints</u> on our solutions. Be sure to consider the needs of multiple stakeholders.						



## **Part 3: Developing Specific Criteria and Constraints**

Classify the criteria and constraints the class generated into the categories below.

Considerations in a proposed solution	Criteria	Constraints
Scientific Needs		
Social Needs		
Cultural Needs		
Economic Needs		
Environmental Needs		

From the class list, choose three criteria and three constraints that you think will be best to evaluate the problem you chose.

Criteria	Constraints
If your colution was successful according to the crital	ria vov shasa juhat novi tasks would it accomplish?
If your solution was successful according to the criter How would you know it was successful?	ha you chose, what new tasks would it accomplish:
now would you know it was successivi:	