Name
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## **Climate Engineering Teaching Module**

## **Lesson 3: Climate Engineering Designs Worksheet**

## Introduction

Use your content knowledge, the decision matrix, and your creativity to revise your climate engineering design.

## Question Set 1 (Use the Decision Matrix to help decide which of your climate engineering designs you should develop further)

Criteria to Consider when Selecting and Revising your Designs	Score 1-5
How well does your design slow global warming and/or climate change? (1 - not well, 5 - very well)	
Does your technology modify or work with an environmental system? (1 - does not, 5 - perfect match)	
What is the cost of your technology (consider materials, resources, and upkeep)? (1 - high cost, 5 - low cost)	
Does your design scale well (can you test your technology on a small-scale, then expand to large-scale deployment)? (1 - not well, 5 - very well)	
Rate the amount of unintended negative consequences of deploying your technology? (1 - many, 5 - few)	
Is your design unique? (1 – other students have similar designs, 5 – it's one-of-a-kind!)	
Total (max 30 points)	

1. What are the ratings of your three designs? Are you able to combine features of your designs to create a unique technology that scores high in all the criteria categories?

Engine	eering Blueprint Checklist	
□ Title		☐ Label and a Table of important features
□ Ad	escriptive subtitle	$\square$ Label and a Table of the size of your design
□ Dra	awings from at least two perspectives	☐ Meets all criteria
Quest	ion Set 2 (Consider the questions before your f	inal design)
2.	Describe how your climate engineering design climate change by modifying or working with a	
3.	What materials and natural resources are used technology is expensive? Why or why not?	I for your design to function? Do you think your
4.	Is your technology a solution to <i>global</i> warmin better suited to resolve <i>regional</i> warming and, scaled-up to a global scale?	

5.	Is your technology a long-term solution to global warming and/or climate change? What is the impact if the technology breaks or malfunctions?
6.	What may be some unintended negative consequences of deploying your technology?
7.	Do you foresee any countries benefiting more from your technology? Do you foresee any countries experiencing negative outcomes from its deployment?