

6CER - Section 1 - Exploring Our Engineering Challenge

Unit 6

Name: _____

Period: _____

Date: _____

You are tasked to write an essay communicating the problem you are trying to solve with the 50 Year Energy Plan and evaluate your design solution against others.

There will be four (4) sections of your essay:

1. Exploring Our Engineering Challenge (Claim)
2. Evaluating Competing 50 Year Plans (Evidence)
3. Reasoning about the Best Design (Reasoning)
4. Limitations of your Plan

At this time you should complete section 1, Exploring Our Engineering Challenge (Claim). You should use your graphic organizer to complete this task.

Use the following outline and color coding to help format your essay

- Introduce the problem you are trying to solve.
- Describe what requirements must be met (the constraints) in order to successfully meet your goal.
- Describe the criteria that will be used to judge the created solution.
- Make a claim as to what you think is most important of the criteria and explain why.
- Detail what may happen if a plan is not implemented.

1. Construct your Exploring Your Engineering Challenge (claim) below.

ClickHereToTypeProblem. Constraints. Criteria. Most_Important. No_Plan.

Rubric	4	3	2
Problem Statement and Constraints	Thoughtfully introduces the problem and describes three or more constraints	Introduces the problem and lists the constraints	Introduces the problem
Criteria and priorities	Describes and gives an example of the three criteria, makes a claim about the highest priority and explains the claim	Describes the three criteria and states a claim about the highest priority	Lists the three criteria and states a claim about the highest priority
What will happen if no solution?	Thoroughly describes with some evidence what will happen if the solution is not solved	Describes what will happen if the solution is not solved	Attempts to describe what will happen if the solution is not solved