Blue

Projected Climate Change

Your team of experts will gather in-depth information dealing with climate change over the next century. The information you gather on this topic will be vital for the group discussion that will take place toward the end of your visit to the Museum, which will focus on:

"What evidence can be used to guide decisions related to climate change?"

Answers to this worksheet can be found in the *A Changing but Uncertain Future, Human Choices and Global Warming, Global CO_2 Emissions Calculator,* and *American CO_2 Emissions Calculator* stations.

A Changing but Uncertain Future

1. Examine the sliding video screen and graph of temperature and CO_2 projections for the 21st century.

   a. In what year are global CO_2 levels predicted to reach 450ppm?

   b. Do both models predict the exact same future temperature changes?

   c. Using the sliding video screen, which region of the world do <u>both</u> models predict the most warming?

   d. What are the three major sources of uncertainty that can cause differences between climate models and projections?

      1.

      2.

      3.

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American CO_2 Emissions Calculator

2. Find the action for each set of options that would reduce American CO_2 emissions the most and record them below.

Lifestyle Options	National Options

3. From the lists you viewed in question 7, which set of actions are you most likely to try?

Consider the Alternatives

Scan your ticket and watch the introduction video. Once you have entered your demographic information, choose one of the three narratives: "Reducing CO_2 Levels," "Saving Habitats or Homes," or "Rising Sea Level." Watch the video that accompanies that section of the survey and answer the following questions.

4. Fill in the table below.

Name of Scenario			
	Slider A	**Slider B**	**Total Cost/Month**
Slider Setting **(Draw a line indicating your choice)**			

$ _____

Cost per month

5. What factors were most important to you in making your selections? How do these compare to other group member's selections?

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