

Post-Challenger Mission Constructed Response

Name _____

Date _____

During your Challenger Mission, you experienced a simulated mission to space in the role of a scientist. You chose a job based on your interests and skills and learned the responsibilities an actual scientist would have both on the space station and at Mission Control. All scientists are responsible for conducting many experiments on each mission. Some of these experiments are designed by the astronauts themselves, some are designed by scientists from all over the world, and some are designed by students like you.

Task: Design an investigation to be conducted on a future space mission that would utilize NASA data.

Complete the following parts of the Scientific Method for the design of your experiment:

Question:

Hypothesis:

Manipulated Variable:

Responding Variable:

Controlled Variables:

Data: Make a labeled data table that would be used to record the data for your experiment.

Reflection: Explain why you chose to design this experiment and what you hope to learn from it.