

Name: _____

Date: _____

Using the Scientific Method to Design an Experiment

1. Is this an example of a "testable" question:

Do freshwater and saltwater boil at the same temperature?

Explain your answer. _____

2. Use the scientific method to evaluate the question from number 1 (either rewrite it below, or write your version of the question if you answered "No" to number 1)

Question: _____

Hypothesis: _____

Experiment: (explain how you would design and conduct the experiment- continued on the next page if you need more room.) _____

Results: _____

Conclusion: _____

3. In your experiment, what was the **independent variable**? Explain. _____

4. What was the **dependent variable**? Explain. _____

5. Can you state a **theory** from the results of your experiment? Why or why not? _____

6. If your answer to question 5 was yes, what is the theory? _____

7. Could you call this a fact? Why or why not? _____
