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**Scientific Method Exam**

**Multiple Choice**

\_\_\_\_\_1. The first step in the scientific method is a. Making observations

b. Conducting experiments

c. Analyzing data

d. Defining the problem/asking the question

\_\_\_\_\_2. To gather information, we can

a. Read books

b. Ask questions

c. Use our senses to study things

d. All of the above

\_\_\_\_\_3. When we make an educated guess we are forming

1. Data
2. A hypothesis
3. Variables
4. A factor

\_\_\_\_\_4. Our recorded observations are called

1. Data
2. Control factors
3. Hypotheses
4. Experiments

\_\_\_\_\_5. At the end of the scientific method, we must state a

1. Purpose
2. Question
3. Hypothesis
4. Conclusion

\_\_\_\_\_6. Every experiment must have only one

1. Variable
2. Step
3. Measurement
4. Object

**True or False (T or F)**

\_\_\_\_\_7. The first step of the scientific process is testing the hypothesis.

\_\_\_\_\_8. Sometimes, steps of the scientific process must be repeated.

\_\_\_\_\_9. Every experiment should have at least three experimental factors or variables.

\_\_\_\_\_10. A control group is a factor that is missing the variable, but is the same as other factors in every other way.

\_\_\_\_\_11. Written observations made while using the scientific process are known as data.

\_\_\_\_\_13. Measurements must be made carefully to make sure all factors, except the variable, are the same.