

## Scientific Method Study Guide

Directions: Answer the questions below for a homework grade. Due by Friday 10/9/2020. Use your journals!!!

1. List the order of the steps for the Scientific Method (list them in order).
  - 1.
  - 2.
  - 3.
  - 4.
  - 5.
  - 6.
  - 7.
  - 8.
  - 9.
  - 10.
2. What is the job of the problem statement?
3. What is the job of the background research?
4. What is the job of the hypothesis?
5. What is the definition of the independent variable?
6. What is the definition of the dependent variable?
7. What is the definition of the constants?
8. What is the definition of the control group?
10. What information should be included in the conclusions section?
11. What are trials? Why should you have trials in your experiment?
12. Are theories supported by evidence?
13. Are laws supported by evidence?
14. Which one explains general ideas about why and how events happen in our universe: a theory or a law?
15. Which one predicts exactly what will happen under specific circumstances: a theory or a law?
16. Provide one example of a theory, and one example of a law.