

# Physical Science TEST REVIEW

NAME: \_\_\_\_\_

## Unit 1: Scientific Method

**Format:** MC, SA, FIB (25-30 questions)

### What you need to know for the test:

- What is the Scientific Method?
- What is Science?
- Steps of Scientific Method
- Independent, Dependent Variables, Constants
- Experimental Group vs. Control Group
- Definitions of: Analyze, Evaluate, Annotate, Deduce, Distinguish, Illustrate
- Qualitative vs. Quantitative Data
- Inferences vs. Observations
- Theory vs. Law

### Practice Questions:

Please put the following steps in the Scientific Method in the correct order below, as well as provide a brief description of each step.

Analyze the Data	Perform an Experiment	Conclusion
State a problem	Communicate Results	
Form a Hypothesis	Create an Experiment	

1. \_\_\_\_\_ -
2. \_\_\_\_\_ -
3. \_\_\_\_\_ -
4. \_\_\_\_\_ -
5. \_\_\_\_\_ -
6. \_\_\_\_\_ -
7. \_\_\_\_\_ -

8. What is the Scientific Method? Is there just ONE Scientific Method? Why is it important? Explain.

9. What is an independent variable?

10. What is a dependent variable?

11. What is a control group?

12. What is a constant?

13. Explain how you know which variable in an experiment is the independent variable.

14. What question can you ask to help you identify the dependent variable?

15. What are the two types of data that we talked about in class? What is the difference between these two types of data (provide definitions)? Examples?

16. What is the difference between an observation and an inference? Examples?

**\*Look at other test review for more practice questions.**