

Answers to the Physical Science Final Study Guide

Multiple Choice:

1. B

Short Answer:

2. A scientific theory is a possible explanation for a pattern observed repeatedly in the natural world.

3. Hypotheses are based on observations, prior knowledge, or information gathered during other experiments.

4. The investigator might have made an error during a single trial, or a subject might perform differently each time.

5. A theory is more of an attempt to explain the pattern while a law is more of a rule. Both stand until someone makes an observation that doesn't follow the theory or law.

6. Determine the pH. Acids are between 0 and 7 and bases are between 7 and 14.

7. 24 the law of conservation of mass states that the mass of products in a chemical reaction is equal to the mass of reactants.

8. There is the same number of atoms of each element of the reactant side as on the product side of the equation.

9. In homogeneous mixtures the components are mixed evenly throughout, whereas parts of heterogeneous mixtures differ from other parts in composition and are usually easy to distinguish.

True and False:

10. F, Kelvin

11. T

12. F, two variables

13. T

14. F, electrons

Physical Science Chemistry Final Study Guide Answers

Lei Shi



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