

Physical Science Comprehensive Final Exam Study Guide

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

1. The process of learning more about the natural world is ____.
a. an experiment c. a hypothesis
b. a control d. science
2. Experiments and investigations must be ____.
a. approved c. repeatable
b. unrepeatable d. accepted
3. A prediction about a problem that can be tested is a(n) ____.
a. hypothesis c. dependent variable
b. independent variable d. control
4. A variable in an experiment that stays the same is a(n) ____.
a. independent variable c. constant
b. dependent variable d. control
5. Science cannot answer questions about ____.
a. distance c. politics
b. temperature d. the natural world
6. Models can be used to describe which of the following environments?
a. the floor of the ocean c. space
b. volcanoes d. all of the above
7. Scientific ____ must be supported by observations and results from many investigations and are not absolute.
a. constants c. systems
b. theories d. laws
8. Another term for technology is ____.
a. applied science c. comparison
b. controlled experiment d. sequence
9. When designing an experiment, the first step is to ____.
a. draw conclusions c. recognize a problem
b. form a hypothesis d. test a hypothesis
10. When conducting an experiment, the last step is to ____.
a. analyze the data c. form a hypothesis
b. draw conclusions d. recognize a problem
11. To evaluate the observations you make, you must use ____.
a. a hypothesis c. measurements
b. critical thinking d. models
12. Scientists must be impartial and not base their conclusions on ____.
a. opinions c. models
b. evidence d. experiments
13. To ____ means to draw a conclusion based on something you observe.
a. guess c. model
b. control d. infer
14. In which of the following situations would it NOT be wise to estimate?
a. the number of miles per gallon an automobile can provide
b. the time it would take to walk to the grocery store from home

Study Guide For Physical Science

Konrad Bates Krauskopf,Arthur Beiser

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