

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

# Physical Science Study Guide Eoc Nc

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