

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

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 $900 \times 2\pi / 60 \text{ rad s}^{-1}$ and $t = 60 \text{ s}$ hence angular deceleration $\alpha = \pi / 2$ question 3 a bus is moving in a circular track of radius
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curved path in a car or an amusement park ride a commonly held belief by beginning physics students is that objects moving
in circles experience a centrifugal outward force

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