

Physics Toolkit - Study Guide

Vocabulary Review

Complete each statement with the correct physics term:

1. A _____ is an educated guess about the relationship between variables.
2. The _____ variable is manipulated in an experiment.
3. The _____ variable responds to changes in the manipulated variable.
4. _____ data uses numbers and measurements.
5. A _____ shows the relationship between two variables graphically.
6. The _____ of a line indicates the rate of change between variables.
7. _____ notation is used to express very large or very small numbers.
8. A _____ is a simplified representation of a complex system.

Methods of Science

Multiple Choice: Choose the best answer.

1. The first step in the scientific method is:
 - a) forming a hypothesis
 - b) making observations
 - c) conducting experiments
 - d) analyzing data
2. A controlled experiment should test:
 - a) multiple variables
 - b) one variable at a time
 - c) no variables
 - d) all possible variables
3. Scientific theories are:
 - a) educated guesses
 - b) proven facts
 - c) well-tested explanations
 - d) simple observations

Mathematics and Physics

Fill in the blanks:

1. Significant figures indicate the _____ of a measurement.
2. When adding measurements, round to the least number of _____ places.
3. When multiplying, round to the least number of _____ figures.
4. The slope of a distance vs. time graph represents _____.

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