

# 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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web wind turbine power nominal power yield annual yield rotation magnitude distance repowering wind turbine power calculator calculates the power of a wind turbine from size wind speed and air density the radius is the length of a rotor blade the wind speed refers to one point in time not to an average speed

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web wind turbine blade calculator design your wind turbine blades using our software match blades to your existing generators rpm and power output customize the blade radius number and  $tsr$  to find power output for your average wind speed purchase plans for turbine blades after your design is complete