

# Chapter 1

## Units, Physical Quantities, and Vectors

### 1 The Nature of Physics

- Physics is an experimental science.
- Physicists make observations of physical phenomena.
- Physicists try to find patterns and principles that relate to these phenomena.
- These patterns are called physical theories. And, over time, if they become well established, they are called physical laws or principles.
- The development of physical theories is a two-way process that starts and ends with observations or experiments.
- Physics is the *process* by which we arrive at general principles that describe how the physical universe behaves.
- No theory is every regarded as the final or ultimate truth. New observations may require that a theory be revised or discarded.
- *It is in the nature of physical theory* that we can disprove a theory by finding behavior that is inconsistent with it, but we can never prove that a theory is always correct.
- Theories typically have a *range of validity*.

### 2 Solving Physics problems

- “You don’t *know* physics unless you can *do* physics.”
- Some guidelines
  1. Identify the relevant concepts
  2. Set up the problem
  3. Execute the solution (i.e., do the math)

# Mastering Physics Solutions Manual Units Physical Quantities

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