



Section 1.1 Learning Goals

- Define measurement.
- Compare English and SI measurements.
- Become familiar with metric prefixes.
- Distinguish between accuracy, precision, and resolution.

CPO science

1.1 Measurements

- A measurement is a determination of the amount of something.
- A measurement has two parts:
 - a number value and
 - a unit





1.1 Two common systems

- The English System is used for everyday measurements in the United States.
- Miles, yards, feet, inches, pounds, pints, quarts, gallons, cups, and teaspoons are all English system units.
- In 1960, the Metric System was revised and simplified, and a new name was adopted— International System of Units.



- The acronym SI comes from the French name Le Système International d'Unités.
- SI units form a base-10 or decimal system.
- In the metric system, there are:
 - 10 millimeters in a centimeter,
 - 100 centimeters in a meter, and
 - 1,000 meters in a kilometer.











