

1.1 Measurements

Metric System / SI unit notes

Measurement

A measurement has two parts: a number value and a unit.

* Example: 7.6 mm Must have both!
 ↑ ↑
 number unit

Metric System or SI Units

Used by all countries except US, Myanmar, Liberia.

sys
eq

Metric system uses a base-10 or decimal system so that all units are related.

* Example: 1 L = 100 cL = 1000 mL
 1 × 10² 1 × 10³

Length is measured in meters (m) → (m³)

Volume is measured in cubic meters or liters (L)

Mass is measured in kilograms (kg)

Temperature is measured in Kelvin (K) or Celsius (°C)

Adding prefixes to an SI units changes the size of the unit.

* Example Kilo + gram
 Kilogram = 1000 grams or 10³ grams