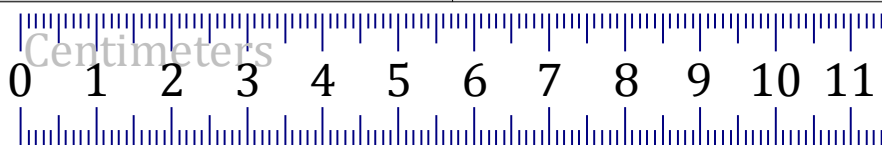


Metric System

Commonly Used Metric Relationships

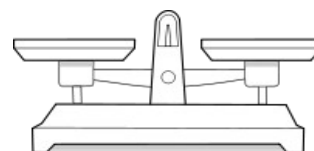
Length

1 mm = 0.1 cm	1 mm = 0.001 m	1 m = 0.001 km
1 cm = 10 mm	1 m = 1,000 mm	1 km = 1,000 m
1 cm = 0.01 m		1 m = 100 cm



Mass

1 mg = 0.001 g	1 g = 0.001 kg
1 g = 1,000 mg	1 kg = 1,000 g



Volume

1 mL = 0.001 L	1 mL = 1 cm ³
1 L = 1,000 mL	1 L = 1,000 cm ³

Metric System Facts

Prefixes always have the same value no matter what the unit.

<i>Really Small</i>			<i>In the Middle</i>			<i>Really Big</i>		
pico	10 ⁻¹²	trillionth	centi	10 ⁻²	1/100	kilo	10 ³	thousand
nano	10 ⁻⁹	billionth	deci	10 ⁻¹	1/10	mega	10 ⁶	million
micro	10 ⁻⁶	millionth	--	10 ⁰	1	giga	10 ⁹	billion
milli	10 ⁻³	thousandth	deka	10 ¹	10	tera	10 ¹²	trillion
			hecto	10 ²	100			

E.g. A gigameter is 1 billion meters; a gigabyte is 1 billion bytes

Other Metric Relationships to know

1 L of water has a mass of 1 kg.

1 cm³ of water is 1 mL and has a mass of 1 g.

1 hectare is a square with sides measuring 100 m.

1 tonne (Metric ton) is 1,000 kg and can also be called a megagram.

1 m³ of water has a mass of 1 tonne.