

## Metric Measurement System

The system of measurement used worldwide / science fields

### Metric Base Units

The starting unit size in the metric system, based on  $10^0 = 1$

Quantity	Base Unit	Abbreviation	Quantity	Base Unit	Abbreviation
length	meter	m	volume	Liter	L
Mass	gram	g	time	second	s

### Metric Prefixes

Prefixes are modifiers that are used to make a base unit bigger or smaller by a factor of 10 (*multiply or divide by 10,  $10^x$* )

## Metric Prefix Relationships

Base (  ): 1 ( $10^0$ )      Centi (*c*): 0.01 ( $10^{-2}$ )

Milli (*m*): 0.001 ( $10^{-3}$ )      Kilo (*k*): 1000 ( $10^3$ )

## Metric Prefix Conversions

*From/To Base (meter shown)*

1m = 100cm = 1000mm = 0.001km

*From/To Different Prefixes*

1000m = 1km