

SI Units

SI is the most commonly used system of units in the world. It is sometimes incorrectly referred to as the metric system. SI stands for the French phrase *Système International d'Unités*.

The SI system of units defines **seven basic units**. All other units can be derived from these basic units. The basic units are:

Property	Name	Symbol
Length	metre	m
Mass	kilogram	kg
Time	second	s
Electric Current	ampere	A
Temperature	kelvin	K
Amount of Substance	mole	mol
Light Intensity	candela	cd

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Scientists use a prefix in front of an SI unit to indicate its order of magnitude. For example the following three are the same:

0.000000000000001 m

1×10^{-15} m

1 fm

Which one would you prefer to write?

Multiple	Prefix	Symbol
10^{24}	yotta	Y
10^{21}	zetta	Z
10^{18}	exa	E
10^{15}	peta	P
10^{12}	tera	T
10^9	giga	G
10^6	mega	M
10^3	kilo	k
10^2	hecto	h
10^1	deca	da
10^{-1}	deci	d
10^{-2}	centi	c
10^{-3}	milli	m
10^{-6}	micro	μ
10^{-9}	nano	n
10^{-12}	pico	p
10^{-15}	femto	f
10^{-18}	atto	a
10^{-21}	zepto	z
10^{-24}	yocto	y