

Measurement and Units

mass	kilogram	kg
length	meter	m
temperature	Kelvin	K (absolute scale)
	Celsius	C (metric)
amount of matter	mole	mol

Derived units of measure:

	SI units	other common units		
Area	m ²			
Volume	m ³	cm ³	L	mL (note: 1 mL = 1 cm ³)
Density	kg/m ³	g/cm ³	g/mL	
Force	N (kg·m/s ²)			
Pressure	Pa (N/m ²)	atm	mmHg	
Energy	J (N·m or kg·m ² /s ²)	cal	Cal	

Prefixes for Multiples of SI Units

factor	Prefix	symbol
1,000,000,000 = 10 ⁹	giga	G
1,000,000 = 10 ⁶	mega	M
1,000 = 10 ³	kilo	k
100 = 10 ²	hecta	h
10 = 10 ¹	deka	da
0.1 = 10 ⁻¹	deci	d
0.01 = 10 ⁻²	centi	c
0.001 = 10 ⁻³	milli	m
0.000 001 = 10 ⁻⁶	micro	μ
0.000 000 001 = 10 ⁻⁹	nano	n
0.000 000 000 001 = 10 ⁻¹²	pico	p

You need to memorize this information!