

\* metric prefixes are combined with SI units when reporting physical quantities

### 1.3 Metric Systems

Prefix	Abbreviation	Factor	
mega	M	1,000,000	$(10^6)$
kilo	k	1,000	$(10^3)$
deci	d	0.1	$(10^{-1})$
centi	c	0.01	$(10^{-2})$
milli	m	0.001	$(10^{-3})$
micro	$\mu$	0.000001	$(10^{-6})$
nano	n	0.00000001	$(10^{-9})$
pico	p	0.0000000001	$(10^{-12})$

Scientific notation - used with very large or very small numbers, has the general form  $N \times 10^x$ , where  $N$  is a number between 1 and 10 and  $x$  is a positive or negative integer

### 1.3b SI base units and derived units

Length - longest dimension of an object, is the meter (m), atomic radii can be expressed using nanometer (nm) or picometer (pm) units

Mass - the measure of the quantity of matter in an object is the kilogram (kg), only SI unit that contains metric prefix

Temperature - has 3 temperature scales: Fahrenheit (F), Celsius (°C) & Kelvin (K)  
 water boils ~ 212°F, 100°C, 373.15 K / water freezes ~ 32°F, 0°C, 273.15 K

\*  $T(^{\circ}\text{C}) = T(\text{K}) - 273.15$  \* 180 Fahrenheit degree = 100 Celsius degree

\*  $\frac{9}{5}$  Fahrenheit degrees = 1 Celsius degree \*  $T(^{\circ}\text{F}) = \frac{9}{5} T(^{\circ}\text{C}) + 32$

K = 273.15 + °C C = 273.15 - K \*  $F = (C - 32) \times \frac{9}{5}$  \*  $F = (K - 273.15) \times \frac{9}{5} + 32$

Volume - SI unit is cubic meter (m³), other common unit is the liter (L), one milliliter is equal to one cubic centimeter (1 mL = 1 cm³)

Energy - SI unit is Joule (J), other common energy unit is calorie (cal), one calorie is equal to 4.184 joules (1 cal = 4.184 J), 1 Calorie (Cal) equal to 1000 calories (1 Cal = 1000 cal = 1 kcal)

Density - density =  $\frac{\text{mass}}{\text{volume}}$ , density standard temp. 25°C



# Lab Manual For Chemistry 1107 At Ttu

**Maria Benavides**



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