

CHEMISTRY FORMULA SHEET

Determining Average MEAN		Stoichiometry: Mole → Mole	
Percent Error		Mass → Mole	
One Step Label Conversion		Mole → Mass	
Mole Ratios		Mass → Mass	
Percent Composition		Mass → Volume	
Average Atomic Mass		Volume → Mass	
Half-Life		Volume → Volume	
Molar Conversions: Mole to mass		Molar Conversions: Particles to mass	
Mass to mole		Mass to particles	
Mole to volume		Mole to particles	
Volume to mole		Particles to mole	
Mass to volume		Volume to particles	
Volume to mass		Particles to volume	

Percent Yield		Molarity	
Determining pH		Molality	
Solution Dilution		Boyle's Law	
Charles' Law		Combined Gas Law	
Ideal Gas Law: Using moles		Ideal Gas Law: Using mass	
Energy: Using Specific Heat Capacity		Energy: Using Heat of Fusion Or Heat of Vaporization	
Density		Wavelength	
Boiling Point Elevation *where $K_b$ is the molal boiling point elevation constant		Freezing Point Depression *where $K_f$ is the molal freezing point depression constant	

#### CHEMISTRY CONSTANTS

Avagadro's Number		Molar Volume	
Speed of Light (in a vacuum)		Standard Temperature (in $^{\circ}\text{C}$ and K)	
Mass of a proton		Charge of a proton	
Mass of a neutron		Charge of a neutron	
Mass of an electron		Charge of an electron	

**\*Know your metric conversions!!**