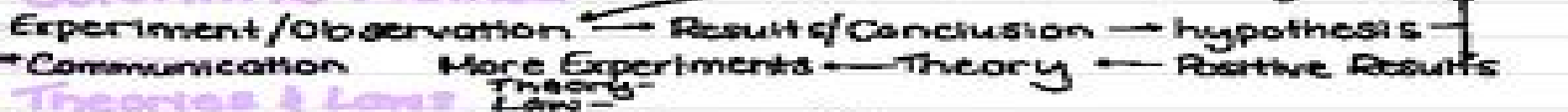


# Finals Grinding

## Chapter 1

### 1.1 Chemistry in Context

#### Scientific Method



#### Theories & Laws

### 1.2 Phases & Matter Classification

#### States of Matter

Solid - fixed shape and volume  
 Liquid - shape of container, fixed volume  
 gas - expands to fill container  
 plasma - gaseous state w/ charged particles w/ unique properties

#### Mass & Weight

Mass - amt of matter  
 Weight - force of gravity on object  
 Conservation - Amt of matter doesn't change due to chemical or physical reactions

#### Defined Terms

Pure substance - constant composition  
 Mixture - two or more substances  
 Elements - same type of atom, smallest version  
 Compounds - can be decomposed to other compounds/elements  
 Homogeneous mixture - uniform composition  
 Heterogeneous mixture - physically distinct parts

Miscible - forms a homogenous mixture when mixed

### 1.3 Physical & Chemical Properties

#### Ex/Intensive Properties

extensive depend on amt  
 intensive independent of amt

#### Periodic Table

Atomic number = protons  
 Periods - across  
 Groups - down

Chalcogens - group 16 (O, S, Se, Te, Po, Lv)  
 alkali - alkali earth - transition - metals - metalloids - Non - Hala - noble gases

#### Strong Acids

chloric  $\text{HClO}_3$  hydrobromic  $\text{HBr}$  nitric  $\text{HNO}_3$  hydrochloric  $\text{HCl}$  sulfuric  $\text{H}_2\text{SO}_4$

#### Strong Bases

barium  $\text{Ba(OH)}_2$  calcium  $\text{Ca(OH)}_2$  strontium  $\text{Sr(OH)}_2$  lithium  $\text{LiOH}$  potassium  $\text{KOH}$  sodium  $\text{NaOH}$

### 1.4 Measurements

magnitude - size of number  
 indication of uncertainty -  $\pm$  one uncertain digit  
 unit - standard of comparison  
 pico  $10^{-12}$  nano  $10^{-9}$  micro  $10^{-6}$  milli  $10^{-3}$  centi  $10^{-2}$  deci  $10^{-1}$   
 kilo  $10^3$  mega  $10^6$   
 Density - mass/volume (invasive property)

### 1.5 Uncertainty, Accuracy, Precision

measurement device & user introduce uncertainty  
 measure from bottom of meniscus

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**James E. Brady, John R. Holum**



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