Chemistry CP Final Part 2 Topics

 Date	Mod	Final Date

Unit Seven:

• Chemical Equations & Reactions (Chapter 8)

- $\hfill\square$ chemical reaction / indicators of reaction
- □ Law of Conservation of Mass
- □ balancing equations (coefficients / special symbols)
- \Box types of reactions
- □ activity series

• Stoichiometry (Chapter 9)

- $\hfill\square$ mole ratio / molar mass / balanced equations for chemical reactions
- $\hfill\square$ solve for amount of R or P in moles or mass
- □ limiting reactants
- $\hfill\square$ % yield / theoretical yield / actual yield

Unit Eight:

• Physical Characteristics of Gases (Chapter 10)

- $\hfill\square$ Kinetic-molecular theory / focus on energy of particles
- □ ideal gas / real gas
- $\hfill\square$ 5 assumptions for ideal gases
- □ physical properties of gases expansion / fluidity / density / compressibility / diffusion / effusion
- $\hfill\square$ variables to measure volume / pressure / temperature / amount in moles
- $\hfill\square$ pressure / units
- \Box STP
- □ gas laws Boyle's / Charles' / Gay-Lussac's / Combined / Dalton's partial pressures

• Molecular Composition of Gases (Chapter 11)

- $\hfill\square$ combining volumes of gases in reaction / Avogadro's law
- □ molar volume
- □ ideal gas law

Name _____

Unit Nine:

• Liquids & Solids (Chapter 12)

- □ Kinetic- Molecular Theory / focus on energy of particles
- □ properties of liquids density / incompressible / viscosity / surface tension / capillary action
- $\hfill\square$ properties of solids density / incompressible / crystal structures
- □ amorphous solids
- $\hfill\square$ changes in state name of each / define / focus on gain or loss of energy
- $\hfill\square$ phase diagram
- □ water chemistry (where / amount /need) / structure / polar / density / ice

• Solutions (Chapter 13)

- □ mixtures / types
- □ solutions / types
- □ dissolving process / rates of dissolving / like dissolves like
- $\hfill\square$ solubility / saturated / unsaturated / supersaturated
- $\hfill\square$ concentration / molarity

• Ions in Aqueous Solutions (Chapter 14)

- $\hfill\square$ dissociation / ionization
- $\hfill\square$ ionic equations for each
- $\hfill\square$ electrolytes / nonelectrolytes
- $\hfill\square$ semipermeable membrane / osmosis

Unit Ten:

• Carbon & Hydrocarbons (Chapter 20)

- □ carbon / allotropes
- $\hfill\square$ vocab prefixes / suffixes for naming
- □ structural formulas (must be able to draw compound & name)
- $\hfill\square$ isomers structural / geometric / optical
- □ aliphatic hydrocarbons alkanes / alkenes /alkynes
- $\hfill\square$ aromatic hydrocarbons / benzene ring

• Other Organic Compounds (Chapter 21)

- \Box functional groups
- alkyl halides / alcohols / carboxylic acids / amines (functional group for each / draw compound & name)
- Biological Compounds