

Chem 20 Test 3 Review

Tro 5th Edition

Memorize

For naming compounds,

Symbols for elements 1-40, prefixes 1-6 used with molecular elements, acid conversion chart -ic → ate, the six polyatomics

Types of reaction (single displacement, double displacement, combination, decomposition)

Guide for doing stoichiometry problems;

$$\begin{array}{ccccccc} \text{P.T.} & & \text{coeff of reaction} & & \text{P.T.} & & \\ \text{grams}_A & \text{-----} & \text{moles}_A & \text{-----} & \text{moles}_B & \text{-----} & \text{grams}_B \end{array}$$

$$\text{Percent Yield} = \frac{\text{actual yield}}{\text{Theoretical yield}} \times 100$$

Chapter 7- all sections

1. Be able to balance chemical equations #35c, 37a,b,c, 43, 49
2. Complete the products of precipitation reactions, determine the identity of the solid formed given the solubility rules #65, 67, 69
3. Write ionic and net ionic equations for precipitation reactions #73, 75
4. Complete acid-base reactions # 81
5. Classify chemical reactions # 91

Chapter 8- sections 1-6

1. Determine the number of moles formed or used in a reaction given the moles of another substance #29
2. Determine the number of grams formed or used in a reaction given the grams of another substance # 31, 35, 41
3. Do problems involving limiting reactants #43, 61, 63, 89
4. Do problems involving percent yield #59

Chapter 9 sections 1-4, 7, 9 +pg 298-301

1. Know the parts of the electromagnetic spectrum in order of decreasing energy, frequency and wavelength # 31, 33, 37
2. Understand how light is produced in atoms #41

3. Know what atomic radius, ionization energy and metallic character mean. Know their trends on the periodic table
77, 81, 83, 85
4. Write out the electron configuration for an atom and determine its number of valence electrons #49, 55 a, c, d, 61, 63, 65, 73, 75