

Unit 3 Test Review

Mass and Moles

- What is Avogadro's number and what does it represent?
- What are the units for the following:
 - Mass
 - Moles
 - Molar Mass
 - Number of particles for each of the following: Pb, CaO, NO
- Be able to:
 - Calculate Molar Mass
 - Calculate number of moles from mass
 - Calculate mass from number of moles
 - Calculate number of particles from mass

Empirical and Molecular Formula

- What is the difference between empirical and molecular formula?
- Be able to:
 - Determine percent composition
 - Determine Empirical Formula
 - Determine Molecular Formula

Stoichiometry

- What is the purpose of stoichiometry?
- Be able to:
 - Determine the mass OR number of particles of a product based on the mass of reactant given

Limiting Reagents and Percent Yield

- What is the difference between a limiting reagent and an excess reagent?
- Be able to:
 - Determine limiting reagent in a chemical equation
 - Determine theoretical yield using stoichiometry
 - Determine percent yield

Practice Questions:

Number of Particles	p. 252 #17bc, 18ac
Mass, Molar Mass	p. 252 # 21, 22, 23
Percent Composition	p. 290 # 28, 30, 31
Empirical and Molecular Formula	p. 290 # 19, 20, 21, 22, 23
Stoichiometry	p. 300 # 11, 19 p. 252 # 19
Limiting Reagent and Percent Yield	p. 319 #51, 52 p. 332 #18, 20