

Chemistry 11 – Unit 7—Stoichiometry
Unit Outline

Topic	Activity
Definition of Stoichiometry	Brief class introduction to Stoichiometry. See p. 121 SW.
Coefficients and Moles	Class explanation of coefficients, molecules and mole ratios. See p. 123-124 in SW. Do Ex. 1 (a-d), 2 (a-d), & 3 on p. 124 SW.
Moles \rightleftharpoons Mass and Mass \rightleftharpoons Mass Problems	Class examples of problems with moles \rightleftharpoons mass and mass \rightleftharpoons mass conversions. See p. 125-126 in SW. Do Ex. 6 (a-b) and 7(a-b) on p. 127 of SW. Do Experiment 6A—Mass and Moles in a Chemical Reaction
Volume \rightleftharpoons Mass and Volume \rightleftharpoons Volume Calculations	Class examples of problems with moles \rightleftharpoons volume, mass \rightleftharpoons volume and volume \rightleftharpoons volume calculations. See p. 125-126 of SW. Do Ex. 6 (c-d) and 7 (c-f) on p. 127 of SW.
Calculations Involving Molecules, Moles, Mass & Volume	Class examples of calculations involving conversions to/from molecules to/from mass, moles or volume. See example “e” on p. 126 of SW. Do Ex. 8 (a-d), 9 (a-c) and 10 on p. 127 of SW. Do Hand-In Assignment # 10—Stoichiometry Problems
Stoichiometry Involving Molarity	Class Review of Molarity Calculations. Class examples of Stoichiometry Problems involving Molarity. See p. 129-131 in SW. Do Ex. 17-20 on p. 131 of SW. Do Experiment 20-C Acid-Base Titration
Stoichiometry of Excess Quantities	Class Explanation of Finding Excess Reactant and Limiting Reactant and Masses of Products Produced. Do Ex. 26-28 on p. 133 of SW.

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Percentage Yield Problems	<p>Class Explanation of Finding Percentage Yield. See SW. p. 134-137</p> <p>Do Ex. 33 c and 36 a-c on p. 137 of SW</p> <p>Do Hand-In Assignment # 11—Molarity, Excess and Percentage Yield Problems.</p>
Summary and Test	<p>Class Review of Unit 7—Stoichiometry</p> <p>Test on Unit 7</p>