Stoichiometry
http://www.unit5.org/chemistry/Stoichiometry.htm

Learning Objectives/Targets	Worksheet / Lab
STOICHIOMETRY	
<ul> <li>10.1 INTERPRETING A CHEMICAL EQUATION</li> <li>To relate the coefficients in a balanced chemical equation to:</li> <li>(a) moles of reactants and products</li> <li>(b) liters of gaseous reactants and products</li> </ul>	
<ul><li>10.2 MOLE-MOLE RELATIONSHIPS</li><li>To relate the number of moles of two substances in a balanced chemical equation.</li></ul>	
<ul> <li>10.3 TYPES OF STOICHIOMETRY PROBLEMS</li> <li>To classify the three basic types of stoichiometry problems; mass-mass, mass-volume, and volume-volume</li> <li>To state the procedure for solving a stoichiometry problem, given the balanced equation.</li> </ul>	ne.
10.4 MASS-MASS PROBLEMS  • To perform mass-mass stoichiometry calculations.	
10.5 MASS-VOLUME PROBLEMS  • To perform mass-volume stoichiometry calculations.	
10.6 VOLUME-VOLUME PROBLEMS  • To perform volume-volume stoichiometry calculations.	
<ul> <li>10.7 THE LIMITING REACTANT CONCEPT</li> <li>To explain the concept of a limiting reactant.</li> <li>To identify the limiting reactant in a chemical reaction, given the number of moles of each reactant.</li> </ul>	
<ul> <li>10.8 LIMITING REACTANT PROBLEMS</li> <li>To perform mass-mass stoichiometry calculations involving a limiting reactant.</li> <li>To perform volume-volume stoichiometry calculations involving a gaseous limiting reactant.</li> </ul>	
10.9 PERCENT YIELD  • To calculate the percent yield for a reaction, given the actual yield and theoretical yield.	
BACKGROUND INFORMATION  9.1 Avogadro's Number  • To state the value of Avogadro's number: 6.02 x 10 <sup>23</sup> .  • To state the mass of Avogadro's number of atoms for any element by referring to the periodic table.	
9.2 Mole Calculations I  • To relate the moles of a substance to the number of particles.	
9.3 Molar Mass  • To calculate the molar mass of a substance, given its chemical formula.	
<ul> <li>9.4 Mole Calculations II</li> <li>To relate the mass of a substance to the number of particles.</li> </ul>	
<ul> <li>9.5 Molar Volume</li> <li>To state the value for the molar volume of any gas at STP: 22.4 L/mol.</li> <li>To relate the density of a gas at STP to its molar mass and volume.</li> </ul>	
<ul> <li>9.6 Mole Calculations III</li> <li>To relate the volume of a gas at STP to its mass and number of particles.</li> </ul>	