

**Chemistry Level II- Modified from [Unit # 4 - The Mole, Chemical Equations, and Stoichiometry](#)****Targeted Goals from Stage 1: Desired Results**

**Content Knowledge:** A limiting reactant dictates the outcome of a chemical reaction. Excess reactant will always exist in a leftover amount when the reaction is completed.

**Skills:** Use dimensional analysis to calculate amounts of reactants and products including limiting and excess reagents.

**Expectation:**

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: General Stoichiometry <ul style="list-style-type: none"> <li><input type="checkbox"/> View Edpuzzle 1, Introduction to Stoichiometry, take notes</li> <li><input type="checkbox"/> Read General Stoichiometry pdf, and take notes</li> <li><input type="checkbox"/> Practice setting up stoichiometry problems.</li> <li><input type="checkbox"/> Write the chemical equation for each problem</li> <li><input type="checkbox"/> Identify known and unknown.</li> <li><input type="checkbox"/> Leave PLENTY of space for each problem,</li> <li><input type="checkbox"/> Save notes to submit when you have completed the module</li> <li><input type="checkbox"/> Submit copy of worksheet if completed</li> </ul>	General Stoichiometry.pdf  Edpuzzle- Video 1 (module 6) - What is Stoichiometry?  Copy of Stoichiometry Problem set 1 - moles and mass, mixed upRF.doc  KEY General Stoichiometry Worksheet .pdf	<ul style="list-style-type: none"> <li><input type="checkbox"/> Viewing of videos - grade will automatically transfer to Classroom gradebook from Edpuzzle</li> <li><input type="checkbox"/> If worksheet is completed, submit</li> </ul>
Tuesday: Continue work from Monday. <ul style="list-style-type: none"> <li><input type="checkbox"/> View Video 2, on mass to mass problems</li> </ul>	Edpuzzle: Video 2 (module 6) Mass-Mass Stoichiometry	<ul style="list-style-type: none"> <li><input type="checkbox"/> Viewing of videos - grade will automatically transfer to Classroom gradebook from</li> </ul>

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
<ul style="list-style-type: none"> <li><input type="checkbox"/> More practice with general stoichiometry.</li> <li><input type="checkbox"/> For each problem on Problem Set 1, continue writing and balancing the chemical equation, write known and unknown, and write conversion factors needed.</li> <li><input type="checkbox"/> Once you have all conversion factors written, you may solve a problem.</li> <li><input type="checkbox"/> Submit a copy of the worksheet if completed.</li> <li><input type="checkbox"/> Save notes to submit when you have completed the module.</li> </ul>		<p>Edpuzzle</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Submit general stoichiometry worksheet, if completed</li> </ul>
<p>Wednesday: Continued Practice with general stoichiometry.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Having completed               <ul style="list-style-type: none"> <li><input type="checkbox"/> balanced chemical equations,</li> <li><input type="checkbox"/> known and unknown</li> <li><input type="checkbox"/> identified the correct conversion factors,</li> </ul> </li> <li><input type="checkbox"/> Solve each problem, using dimensional analysis.</li> <li><input type="checkbox"/> Submit copy of completed work</li> </ul>		<ul style="list-style-type: none"> <li><input type="checkbox"/> Submit completed general stoichiometry worksheet (if not already submitted)</li> </ul>
<p>Thursday: Simulation of Chemical Reactions; Reactants, Products, and Leftovers, with Gaming Challenge.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Click on the link to gain access to a simulation that will take you through four simple chemical reactions, and conclude</li> </ul>	<p>Reactants, Products and Leftovers</p> <p>Sandwich Stoichiometry PHET modified (1)</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Completion and submittal of Sandwich Stoichiometry handout.</li> </ul>

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
<p>with a game challenge.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Complete the accompanying handout (Sandwich Stoichiometry) as you go through the simulation.</li> <li><input type="checkbox"/> When you play the game to your highest possible level, attach a screenshot or photo of the highest level you achieved.</li> <li><input type="checkbox"/> Submit the handout, with photo of your challenge results as google doc, or pdf (please don't share).</li> </ul>		
<p>Friday:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Content Check - Google Form Quiz</li> <li><input type="checkbox"/> Submit full set of notes from module</li> </ul>		<ul style="list-style-type: none"> <li><input type="checkbox"/> Submit full set of notes from module</li> <li><input type="checkbox"/> Content Check Google Form will be posted by Thursday</li> </ul>

**Week criteria for success** (attach student checklists or rubrics):

- ☐ watched all of the recorded videos and taken notes
- ☐ completed worksheets, submitted on google classroom for feedback

**Supportive resources and tutorials for the week** (plans for re-teaching):

- online virtual Q and A help sessions (see Google Classroom for times and invite codes)
- read and re-read the textbook, and watch videos on Edpuzzle again