Grade 9 Distance Learning Module 4: Week of: 4/20th - 4/24th

Science: Conceptual Chemistry - Modified from Unit #1 - Nature of Matter

Targeted Goals from Stage 1: Desired Results

Content Knowledge:

1. A chemical reaction (chemical change) is a transformation that alters the composition of one or more substances such that one or more new substances with new properties are produced.

Vocabulary: products, reactants, stoichiometry, dimensional analysis

Skills:

- **1.** Solve simple stoichiometry problems using mole ratios and molar mass.
- 2. Calculate the molar mass of common chemical substances.

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday:	Phet Simulation on Stoichiometry:	Associated Worksheet:
Students will complete a phet simulation to	phet.colorado.edu - reactants-products-and-	Link posted in Google classroom
help understand and visualize what	<u>leftovers</u>	
stoichiometry tells us. Student will need to		
think logically to predict what products will		
occur based on given amounts of reactants.		
Students will complete an associated		
worksheet while working on the simulation.		
Tuesday:	Edpuzzle: What is Stoichiometry? Mol-Mol	Associated Worksheets:
Students will watch a final video discussing	problems	Initial Practice:
how to effectively use dimensional analysis to		Link posted in Google classroom
solve simple stoichiometry problems. After,		Advanced Practice:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
students will complete two practice sets of		Link posted in Google classroom
stoichiometry problems. The first will be		
simpler, the second will be a bit more		
advanced.		
Online Q&A/ Office Hours: 9:25 a.m10 a.m.	Link nested in Coople closere are	
Wednesday:	Link posted in Google classroom	Associated Worksheet:
Students will continue to work on		Link posted in Google classroom
stoichiometry problems. The difficulty of this worksheet will increase from Tuesday's.		
Thursday:		Associated Worksheet:
Students will continue to work on		Link posted in Google classroom
stoichiometry problems. The difficulty of this		
worksheet will increase from Wednesday's.		
worksheet will his case from the anesady si		
Online Q&A/ Office Hours: 9:25 a.m10 a.m.		
Friday:		
Review from the week		
Check answer keys for worksheets, retry if		
needed		
Office hours 9:25 a.m. to 10:00 a.m.		
Google Form quiz of the week's topics		

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

- **u** watched all of the recorded videos and taken notes
- completed all google forms and checked for accuracy. Each incorrect answer on the google form will provide feedback as to why the correct answer is preferred. Students will incorporate this feedback into future attempts.
- **u** Students will complete an end of the week assessment that checks on content understanding for the topics of the week.
- □ incorporated feedback, submitted second attempt, if needed on google classroom

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)