

Grade 9

Distance Learning Module 2: Week of: 4/6- 4/10

## Content Area: Conceptual Chemistry - Modified from Unit #1 - Classification of Matter

### Targeted Goals from Stage 1: Desired Results

#### Content Knowledge:

1. Ionic bonding is a type of chemical bonding that is the result of the transfer of electrons from one atom to another, typically between metal and nonmetal atoms.
2. 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:

cation, anion, charge, ion, balanced equation,

#### Skills:

Students will be able to name the individual ions in an ionic compound and demonstrate understanding of ions through the use of Bohr Diagrams. Students will then practice naming ionic compounds based on their location on the periodic table and their assigned charge based on location. Students will use skills learned on Monday to complete this skill. Students will end the week by working on balancing equations in preparation for stoichiometry starting on Tuesday in Module 3.

#### Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Students will explore the charges of the cations and anions on based on their locations on the periodic table. Students will	Edpuzzle - Ions & Ion Formation  Charges Reference Sheet: (posted in Google classroom)	Associated Worksheet: (posted in Google classroom)

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watch an edpuzzle video, then students will complete an associated worksheet.		
<p>Tuesday: Students will work on naming basic ionic compounds, and writing their formulas. Students will watch an edpuzzle video, then students will complete an associated worksheet and complete a google form that allows students to check their progress.</p> <p><b>Online Q&amp;A/ Office Hours: 9:25 a.m.-10 a.m.</b></p>	Edpuzzle - Naming Ionic Compounds	Associated Worksheet: (posted in Google classroom)
<p>Wednesday: Students will begin working on balancing chemical equations. Students will watch a video demonstrating efficient balancing practice and complete an associated worksheet to enhance understanding of the skill.</p>	<p>YouTube video- Balancing Chemical Equations - Chemistry Tutorial</p> <p>Balancing Reference Sheet w/ additional problems and answer key posted in Google classroom:</p>	Associated Worksheet: (posted in Google classroom)
<p>Thursday: Students will continue to work on balancing chemical equations. Students may watch a supplemental video for additional help, especially if still struggling from Wednesday. Students will complete the associated worksheet.</p> <p><b>Online Q&amp;A/ Office Hours: 9:25 a.m.-10 a.m.</b></p>	YouTube - A Beginner's Guide to Balancing Equations	Associated Worksheet: (posted in Google classroom)
<p>School is closed for Good Friday. We have provided some optional activities for interested students. There is no obligation to complete any of these activities and students will not be behind their classmates if they do</p>		

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
<p><b>not complete them.</b></p> <p>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</p>		

Friday-Good Friday- No School

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

- 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.
- 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):

- virtual Q and A help sessions (see Google Classroom for times and invite codes)