WEEKLY REMOTE LESSONS
June 1-5, 2020

BROCKTON HIGH SCHOOL
SCIENCE DEPARTMENT

Course: CP/CPA Chemistry

We hope that you, your families and loved ones are well! During the COVID-19 pandemic school closure, we will be doing our best to provide you engaging activities that will enrich your understanding of Chemistry. During term 4, you will primarily be exploring matter, including characteristics of elements and the formation of ionic and covalent compounds.

Goal for this week

Learning Objectives:
Students will be able to …

1. to identify cations and anions.
2. predict the ionic compound formula.
3. name the ions and ionic compounds.

(*2016 MA STE Standard: HS-PS1-2*)

Literacy Objectives:

1. Reading: to understand a concept and construct meaning
2. Writing: to take notes
3. Writing: to generate a response to what one has read, viewed, or heard
4. Reasoning: to identify a pattern, explain a pattern, and/or make a prediction based on a pattern

(https://www.bpsma.org/schools/brockton-high-school/about-us/mission-literacy-charts)

Lesson:

Chemistry Café: Ionic Bonding Week 2

- See the page(s) below for a complete description of what to do and the resources you will need.
- ***Your science teacher will be in contact to clarify expectations (like when and how to submit your work for credit) for your class.***

WHY THIS MATTERS

Understanding ion formation is important because it explains how atoms interact with one another. Check out how scientists are using different ions to create LEDs that emit light over broad wavelengths.

Additional Support

Email:

- Please reach out to your science teacher with specific questions about the lesson.

Office Hours:

- Here is a list of the science teachers' office hours. Please email your teacher to set up meeting times.

Other questions:

- Science Department Head
  Dr. David Mangus
  davidmangus@bpsma.org

Chemistry Café

Topic: Ionic Bonding Week 2

Assignments to do:

Click on the link to view the resource …

1. Read through the Ionic Bonding Continued PowerPoint and take notes
2. Read through the Naming of Ions and Ionic Compounds PowerPoint and complete the Worksheet on Naming Ions and Ionic Compounds.
3. Have access to the Valence Electrons Periodic Table.
4. Have access to a Polyatomic Ions Chart.
5. Watch the video Naming Ionic Compounds! (Simple Binary Ionic)
6. Complete the Ionic Bonds Worksheet.
7. Choose 3 assignments from the café below to complete:
   You should select 1 appetizer, 1 main course, and 1 dessert

Appetizer
Complete the PLIX: Formulas for Binary Ionic Compounds.
Complete the Ionic Bonding Tutorial simulation.
Complete the Ionic Bonding worksheet.

Main Course
Complete the Chapter 7 Ionic Compound Naming (practice quiz) simulation.
Complete the Naming Ionic Compounds Practice worksheet.
Complete the Naming Ionic Compounds Worksheet.

Dessert
Complete the Ionic Bonding Puzzle Project.

Recommended Pacing

Monday: Begin pre-work assignments, **Tuesday:** Complete pre-work assignments, **Wednesday:** Complete an appetizer, T**hursday:** Complete a main course, **Friday:** Complete a dessert