

Chem 8.1

Goals:

- Determine the layout and structure of the periodic table
- Recount the development of the first table, compare and contrast to today's table

Bellwork:

- 1) Compare the picture of this early organization of elements to what is currently known
- 2) Answer the questions posed on the separate sheet
 - a. What are two ways this table is organized differently from the modern table? Do you see any similarities?
 - b. There are no noble gases on this table. What is your hypothesis as to why this is the case?
 - c. What do the numbers next to each symbol stand for? How are they different from the data on your periodic table?
 - d. There are question marks next to the numbers 45, 68, 70 and 180. Why do you think this is the case? Can you use the clues to figure out what should go there?

Plan:

- Share with the class the conclusions on this older periodic table
- Formulate the story of how Mendeleev formulated his table
- Compare and contrast with the current table
- Determine why there are open spaces in the table
- Identify and classify the different groups on the table

HW: Crash course video: Periodic table

- Identify where the different groups are

Chem 8.2

Goals:

- Compare and contrast the properties of different elements
- Identify elements based on their properties and chemical clues

Plan

- Students will work with a partner to complete the Alien Periodic Table and fill in the element names based on the clues given
- Students will use their knowledge of the elements to make connections

HW: Alien periodic table

Chem 8.3

Goals

- Recognize and predict trends based on their location on the table
- Analyze the order of the periodic table and how elements are organized

Plan:

In computer lab, use ptable.com to analyze patterns in chemical and physical properties of the elements (see webquest)

When completed play a game to identify different isotopes

Enrichment: try a different “virtual lab” with an upcoming subject in chemistry

HW: Complete webquest