

College Prep Chemistry of the Earth System

Assignment 3F

20 Points

Periodic Table Development

Answer the following questions based on the video presentation shown in class.

1. (0:55) What is the main differences (*direction*) between groups and periods on the periodic table?
2. (1:20) What is an energy level within an atom, and what do they tell us about both *standard* and *valence* electrons for both periods and groups?
3. (2:40) What did Mendeleev do to develop the periodic table? How did he organize the table, and what did he not know of when he made the table?
4. (4:10) What did Mendeleev do with missing elements on the periodic table? Give an example of a found element.
5. Explain the following alternative periodic tables
 - a. (5:00) Telluric Screw
 - b. (5:41) Spiral Table
 - c. (7:21) Left Step Table
 - d. (9:30) Scerri's Triad Table