

1.6 – Trends of the Periodic Table – Worksheet

Read the Section of Hebden Chemistry 11 provided for you and answer the questions below. This is due at the **end** of Wednesday's class (September 15, 2010)

1. How did chemists first try to organize the known elements? Why did this not work?
2. What was William Odling's grouping of elements based on in 1857? List one group of elements that were grouped together.
3. Explain John Newland's 'law of octaves'. Give two reasons why his organization methods were criticized.
4. How did Dimitri Mendeleev decide to organize the elements? What did he call a row of elements? What did he call a column of elements?
5. When did chemists finally accept Mendeleev's table? How did he convince the scientific community that his organization was correct?
6. Do #30 on page 160. Record your predictions for Germanium below. (this will not be marked and don't use the actual periodic table. See how close you can get.)