Name: ________________________________

**Answer Key: How the Periodic Table Organizes the Elements Video Questions**

**Instructions**
While watching the ACS *Chemistry Basics* video about the organization of the periodic table, answer the following questions:

1. How many elements are currently located on the periodic table?
   118

2. Who first developed the modern periodic table?
   Dmitri Mendeleev

3. What are vertical columns on the periodic table called? How many are there?
   Groups, or families; 18

4. What are the elements in group 18 called? Group 17?
   18: Noble Gases; 17: Halogens

5. What part of the atom determines what kinds of reactions an element will have?
   The outermost electrons, or valence electrons

6. What are the horizontal rows on the periodic table called? How many are there?
   Periods; 7

7. The nuclei of elements on which side of the periodic table pull more strongly on their electrons?
   The elements on the right side of the periodic table pull more strongly on their electrons than elements on the left side.

8. Mendeleev predicted the existence of several elements and their properties before they were discovered. He called one of them “Eka-aluminum.” What do we call that element now?
   Gallium