Honors Chemistry Hour\_\_\_\_\_ Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Dr. Wexler  
Periodic Table: Terms and Concepts  
Date assigned:

1. Create a T-chart listing the differences between metals and non-metals:

2. What is a period on the periodic table and what does it represent?

3. What is a group on the periodic table?

4. What do the elements in a group have in common?

5. Where are the noble gases located on the periodic table?

6. What do the noble gases all have in common (besides being gases and in the same group)?

7. What is a valence shell?

8. What is a valence electron?

9. What is meant by the term, “oxidation state (or ionization state)”?

10. What is the definition of electronegativity?

11. What factor increases electronegativity?

12. What two factors decrease electronegativity?

A.

B.

13. What is an anion and how is it formed?

14. What is a cation and how is it formed?

15. Draw the Bohr model for the sodium atom:

16. Draw the Bohr model for the sodium cation:

17. What determines the radius of an atom across a period? Explain.

18. What determines the radius of an atom down a group? Explain.