**Periodic Table Quiz – Honors Chemistry**

1. List three general properties of metallic elements. (3 pt)
2. Explain what the “electron sea theory” has to do with the properties you listed in question 1 above. (3 pt)
3. Under what conditions do metalloids typically conduct electricity? (2 pt)
4. Why do elements in the same group have similar properties? (3 pt)
5. What is a valence electron? (2 pt)
6. What are the names for each of the following groups of the periodic table? (1 pt each)
7. Group 1
8. Group 17
9. d-block elements
10. Explain why the atomic radius of elements decreases as you move from left to right across the periodic table. (5 pt)
11. Explain why the electronegativity of elements increases as you move across the periodic table. (5 pt)
12. What is the octet rule? (2 pt)
13. Define “ionization energy.” (2 pt)