**Topic 2: Atomic Structure and Periodicity**

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A. Note Portfolio: Grade:\_\_\_\_\_\_\_(12%)=\_\_\_\_\_Points**

**B. Answered Objectives** **Grade:\_\_\_\_\_\_\_\_\_\_\_(10%)=\_\_\_\_\_\_\_\_\_Points**

1. How have Einstein, Planck, Bohr. Heisenberg, Pauli, and Schrodinger each contributed to our current understanding of electrons, their behavior, and relationship to quantum numbers?\_\_\_\_\_\_

2. How do we write electron and orbital notations for elements, use these to describe the approximate location and behavior of electrons in an atom, and relate these to an atom or ion’s location on the periodic table?\_\_\_\_\_\_\_\_\_

3. What are the general periodic trends, what exceptions exist to these trends, why do these trends exist, an how do we use the location of an atom and its electron configuration to predict it’s behavior in relationship to other elements or ions?\_\_\_\_\_\_\_

**C. Labs/Activities Grade:\_\_\_\_\_\_\_\_\_(28%)=\_\_\_\_\_\_\_Points**

1. Electron Configuration Battleship:\_\_\_\_\_\_\_\_\_

2. Mendeleev for a Day:\_\_\_\_\_\_\_\_\_\_\_

3. Periodic Table Graphing:\_\_\_\_\_\_\_\_\_\_\_

4. Flame Test Lab Write Up:\_\_\_\_\_\_\_\_\_\_\_

5. March Madness:\_\_\_\_\_\_\_\_\_\_

**D. Worksheets Completed Grade:\_\_\_\_\_(20%)=\_\_\_\_\_\_\_Points**

**D. Final Test Grade\_\_\_\_\_(30%)=\_\_\_\_\_Points**

**Total Points for Topic 2:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**