**Bonus Quiz: Honors Chemistry, Quarter 1**

Answer the following questions. If this quiz grade is better than any of your other quiz grades, it will be used in place of that grade. If this quiz grade is worse than all of your other quiz grades, it will not be used at all. Either way, *there is no way that this quiz can hurt your grade*.

1) List four pieces of safety equipment in the lab (4 pt):

2) Write the six steps of the scientific method, in order. (8 pt)

3) What are Dalton’s five laws that he used to describe an atom? (10 pt)

4) Convert 45 cm to km. (5 pt)

5) Convert 993 inches to centimeters. There are 2.54 inches in 1 cm. (3 pt)

7) Define the following (2 pt each)

* Law of multiple proportions
* dependent variable
* orbital
* average atomic mass
* isotopes

8) Explain why it is impossible to ever create an atom of uranium-91, no matter what conditions are used. (3 pt)

9) Explain how an atom gives off light when heated. (3 pt)

10) How does the quantum model of the atom differ from the Bohr model? (6 pt)

11) What is the long version of the electron configuration of copper? (2 pt)

12) What is the short version of the electron configuration of copper? (2 pt)