**Bonus Quiz Review: Topics in Chemistry, Quarter 1**

Please answer the following questions. If your score on this quiz is better than one of your previous quiz scores, it will replace that quiz grade. If your score on this quiz is worse than all of your previous quiz scores, it will not. Either way, *there is no way your grade can be hurt, no matter what you score on this quiz*.

1) Name four pieces of safety equipment in our classroom:

2) Do all processes follow the law of conservation of mass? Whether you say “yes” or “no”, give an example to demonstrate your reasoning.

3) Which group on the periodic table has each of the following properties? (1 pt each)

* This group is the most radioactive group of metals.
* This group is the least reactive group of nonmetals.
* This group is metallic and reacts violently with other elements.
* This group isn’t quite as reactive as the alkali metals, but is still quite reactive.
* This group of elements consists of gaseous or easily vaporized, extremely reactive nonmetals.
* Of metals, nonmetals, and metalloids, which is most likely to conduct heat?

4) What is the difference between a dependent variable and independent variable?

5) What is the difference between quantitative and qualitative data?

6) What are the six steps of the scientific method?

7) My cat barfed on my bed. Write a good hypothesis that might suggest how I can solve this problem.