**Topics Test #2**

1) List the six steps of the scientific method in order: (12 pt)

2) Write a hypothesis (in the proper format) that indicates you’re going to do an experiment to find out whether hitting a ketchup bottle with an ice cube will allow the ketchup to come out more easily. (5 pt)

3) For the hypothesis you wrote in #2, what are the independent and dependent variables? (4 pt)

4) Imagine you performed the experiment above and the ketchup flowed out of the bottle better when you hit it with an ice cube. Write the conclusion for this experiment in the correct format. (3 pt)

5) What is qualitative data? (3 pt)

6) Imagine a cotton ball. (12 pt)

a) List three intensive properties of the cotton ball.

b) List three extensive properties of the cotton ball.

c) List three physical properties of the cotton ball.

d) List three chemical properties of the cotton ball.

7) You presumably did something to the bear in your experiment to make it less flammable. What did you do, and what is the chemistry behind this method of fireproofing? (5 pt)