**Science Skills Test NAME:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Observation and Inference**

1. Make 1 qualitative observation about the classroom.
2. Make an inference based on the observation that you made in question #1.
3. Make 2 quantitative observations about the classroom.
4. Identify the following as either a quantitative observation, a qualitative observation, or an inference.
5. The liquid is bubbling;\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. The salt measured 5 grams;\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. The Gobstopper is round;\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Pizza is yummy;\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. The water temperature is 90 degrees;\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. The Gobstopper tastes good;\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
11. Mrs. Lovins likes animals:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
12. The tree is 20 feet tall:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
13. The ice is solid;\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Testable and Non Testable questions;**

Put a T behind of any question that is Testable. Put an N behind any question that is Non-testable.

1. Where can you buy Gobstoppers? \_\_\_\_\_\_\_\_\_\_\_\_\_
2. Will a Gobstopper dissolve faster in hot water or cold water?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. How are Gobstoppers made?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. What is the outside of a Gobstoppers made of?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Will a Gobstopper dissolve faster if you crush it before putting into water?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Why aren’t there any blue Gobstoppers ?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Scientific Method:**

Put the following steps of the scientific method in order from 1 to 6. 1 being the first step and 6 being the last.

\_\_\_Record and Analyze data

\_\_\_Hypothesis

\_\_\_Ask a Question

\_\_\_Conclusion

\_\_\_Perform Experiment

\_\_\_Create an Experiment (Write a Procedure)

**Identifying Variables**

**Identify the independent, dependent, and controlled variable (just 1) in each scenario**

1. The time it takes to run a kilometer depends on the amount of daily exercise a person gets.

I.V. –

D.V.-

C.V. –

2. The higher the temperature of water, the faster an egg will cook.

I.V. –

D.V.-

C.V. –

3. Will Gobstoppers dissolve faster in vinegar or water?

I.V. –

D.V.-

C.V. –

4. Will mentos react with diet Pepsi the same way that they will react with diet Coke?

 I.V.

 D.V.

 C.V.