Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Lab #: \_\_\_\_\_\_\_\_\_\_\_\_\_

Living Environment Honors Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

**Thinking Like a Scientist**

**Aim:**

* What does it mean to think like a scientist?
* What is a testable question?
* What makes a good hypothesis and experiment to test it?

**Materials:**

* Termites
* Paintbrushes
* Paper
* Papermate Pens (Red, Blue, and Black Ink)

**Introduction:**

**LAB SHEET**

**Hypothesis:**

**1.**

**Procedure:**

**Data/ Observation** (Record all of your observations in the space below)

**Conclusion:** Answer the following questions as a guide for your conclusion ☺

1. In order to think like a scientist, what do you need to do?

2. Explain the results of your experiment.

3. Write a paragraph about scientific thinking using all of the following terms:

explanation evidence prediction logic questions observation

4. Explain whether you agree or disagree with each of the following statements:

- Scientists observe without making any judgments; scientific observations are objective and bias free.

- If two scientists run the same experiment and have similar observations, they will develop the same explanation for the results.