**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Unit/#:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**NOS Study Guide**

**You will need to complete this study guide on your own sheet of paper. Anything not finished today is homework**

**Short Answer**

How do theories and laws differ?

Can a theory become a law? Why or why not?

Why do we say that science is tentative and open to change?

Why are theories important?

Why are control variables important?

Why are control groups important?

Why should experimental procedures be replicable?

What is the difference between data and evidence?

Design an experiment. Identify the independent, dependent, and control variables.

**Complete the Sentences**

Science cannot study matters of \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_, or \_\_\_\_\_\_\_\_\_\_.

Science cannot \_\_\_\_\_\_\_\_\_\_ an idea, only provide supporting evidence.

If test results \_\_\_\_\_\_\_\_\_\_ a hypothesis, they strengthen that hypothesis but do not \_\_\_\_\_\_\_\_\_\_ it. If results of a test fail to \_\_\_\_\_\_\_\_\_\_ a hypothesis, the hypothesis can be \_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_.