

## **6<sup>th</sup> Grade Study Guide: “What is Science?”**

### **Vocabulary:**

**Science**: the process of trying to understand the world around us

**Observation**: careful watching that can include measurements and descriptions of drawings of what is seen

**Inference**: an explanation of why something happened; how you explain what you observe

**Hypothesis**: statement that can be tested about a problem

**Experiment**: test of a hypothesis

**Variables**: factors in an experiment that can change

**Independent Variable**: variable that is changed from one trial to the next; “what **‘I’** control”

**Dependent Variable**: variable that changes as the IV changes; “what **NATURE** controls”

**Control Group**: a group that receives no treatment during an experiment

**Trials**: how many times you repeat the experiment

**Data table**: chart that organizes info into columns/rows to record your observations during the experiment

### **Know:**

**-Steps of scientific method**

**-Why you change only one variable at a time**

**-The 3 branches of science and examples of each**

**-How to identify control groups, independent variables, dependent variables**

**-How to read data in experiments**

**-How to draw conclusions in experiments**

**-How to identify and write an experiment**