

Name \_\_\_\_\_

Grade \_\_\_\_\_ Blk. \_\_\_\_\_

## Experimental Design

**Problem or Question:**

**Hypothesis:** Please state in the **If... Then** format.

**Background Research:** Please see Background Research Outline

**Materials:** Be specific, **list** all equipment used and include amounts.

### Defining Variables

**Manipulated Variable** (what I'm changing or comparing):

**Responding Variable** (the change that occurs as a result of manipulation):

**Operational Definition:** A statement that describes how a particular variable is to be measured, or how an object or condition is to be recognized.

**Controlled Variables** (what conditions I'm keeping the same):

**Procedures:** *Detailed* step-by-step instructions on how to perform the experiment. Please include any measurements, quantities, and names of specific equipment.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.