

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

Date: \_\_\_\_\_

### Mapping the Plan

**Possible variables or factors**  
(List below, and circle the ones that are *TESTABLE* in your setting):

**Independent variable:** (This is what you will change between tests. Include *how* you will change it):



1. Choose one variable to study



2. All other variables

**Constants**

(What you need to keep the same between tests in your experiment and how you will do it. These become your quality control measures):

**Dependent variable:**  
(What will you quantify or measure to determine the effect of the independent variable? Include units):

**Observable phenomena** (what did you see or experience that led you to your experiment?)

Based on your concept map, clearly state the question you are trying to answer. Here are some sentence examples to help:

- "I want to know how (the independent variable) will impact the (dependent variable)."
- "What is the relationship between (the independent variable) and the (dependent variable)?"
- "How does (the independent variable) affect (the dependent variable)?"

**Focus Question:**

**Communicating Your Plan:**

Below, or on a separate sheet of paper, write out a set of steps that capture how you will carry out your investigation. Be sure to: indicate what your independent and dependent variables are, and what measures you will take to ensure fair tests (that your data is as accurate as possible).