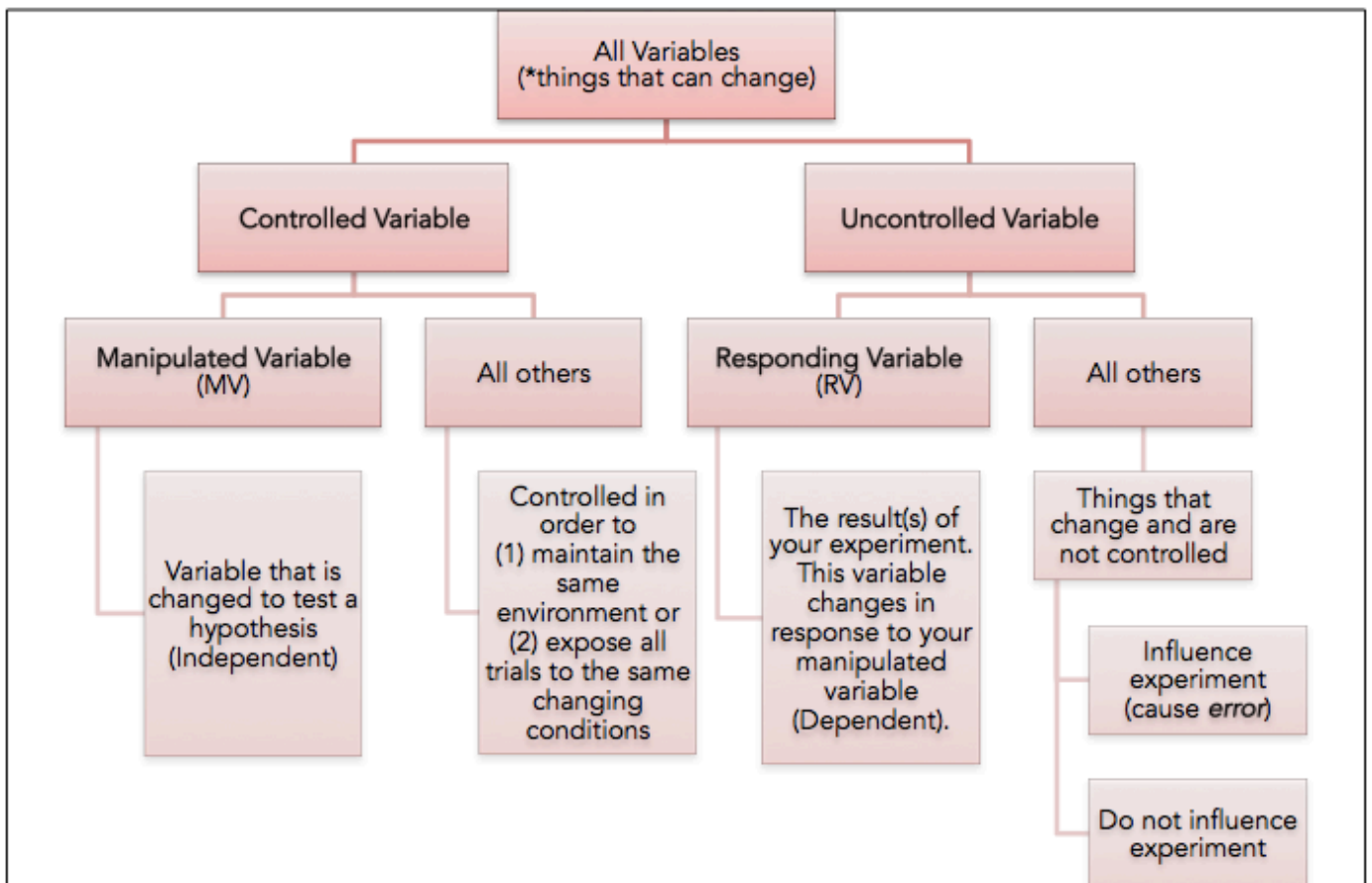


**Purpose(s):**

1. To *identify* and *describe* the different **variables** that can be in a **scientific investigation**.

**Instructions:** Using Figure 1, answer the following questions regarding the different variable types in complete, quality, & correct sentences reflecting the questions.

**Figure 1. World of Variables**



1. What does it mean to *vary* something?
2. What are two things that can vary during the day that you can't keep from varying?
3. What kind of variable would these be?
4. Tell two things that don't vary during the day, but could. What kind of variable would these be?

5. Identify the variable Dr. Goldberger changed for the purpose of testing out his hypothesis in the Pellagra experiment.
6. What type of variable would the answer to Question 5 be?
7. Identify the variable Dr. Goldberger measured in his Pellagra experiments with prisoners. What type of variable would these be?
8. How many Manipulated and Responding Variables can be in an experiment?
9. Tell two ways to control variables.
10. Tell two of the variables that Dr. Goldberger controlled during his experiment with the prisoners.
11. What category and type of variable is the most undesirable to have in an experiment?
12. What is a Control trial and why do scientists have control (trials) in their experiments?
13. What is an Experimental Trial and what is different about an Experimental Trial and a Control Trial?
14. Identify the experimental and control trials Dr. Goldberger used in his experiment with prisoners.