Part 1. Read through the experiment and answer the questions.
Part 2. Then think of your own experiment.

**Part 1:**

**Experiment:**

Reseacher X wants to know the effect of different colors of light on the growth of plants. She believes that plants can survive best in white light. She buys 5 Sweet 100 tomato plants, which are all approximately the same age and size. She places one in white light, one in blue light, one in green light, one in red light and one in the closet. All of the tomato plants are planted in 10 inch pots in Brand X Potting Soil mixed with 5 g of Brand Y Fertilizer and given 50 mL of water once a day for 2 weeks. After the two weeks, Reseacher X observes the plants and takes measurements.

**Questions:**

What was Reseacher X’s Hypothesis?:

What was the Independent Variable in this experiment?:

What was the Dependent Variable?:

Which group or groups were the Control Group(s)?:

Which groups were the Experimental Groups?:

What were the Constants (controlled variables) in this experiment?: (List at least 5)

What types of measurements can Reseacher X make on the plants to determine how they did in different types of light? (Think of at least 2)

**Part 2:**

Think up another experiment and write or type it out. Then list the Independent and Dependent Variables, the Control Group(s), the Experimental Group(s), the Constants, and the Measurements taken to do the analysis.