Scientific Method M&M Lab

Question: Which color of M&M is found most often in a bag?

1. Observations: What do you notice about the characteristics of the candy?

2. Hypothesis: I believe…..because….

3. Experiment:

Weight of 3 different colored M&Ms _____ _____ _____

Length of 3 different colored M&Ms _____ _____ _____

Height of 3 different colored M&Ms _____ _____ _____

4. Data Collection:

Fill in the "Student Data Table" based on you and your groups M&Ms. You will report your data to Mr. Jarrett to get a total class count for each color of M&M.

Lab Questions:

1. Was your hypothesis correct? Why/why not? Cite evidence in your answer.
2. What do you believe are likely reasons for there being more of some colors?
3. What do you think would happen if there were changes in the following?
    a. Different sizes of each color
    b. Different shapes for each color
    c. Different weight for each color
4. Create a bar graph with the total class number of each color. Create a pie graph to represent the % of each color.
5. Create a design that would guarantee the same amount of every color of M&M in every bag produced. Draw a diagram of and write a brief explanation of your design.