

M&M Lab

Directions: complete all of the following. Remember, full points are awarded for full sentences; partial points are awarded for partial sentences.

Pre-Lab Questions

1. What is the purpose of M & M's?
2. What are some different **observations** you can make using M & M's?



Research question - Choose **one** of the following questions to design an experiment and test in class.

- a. How does the color of M & M affect the amount of mass found in an M & M?
- b. What is the most common color of M & M?
- c. _____ (ask your own question that can be tested)

Create an experiment to test your research question

1. Be sure to list each procedure step and materials needed
2. Use complete sentences
3. **Before you begin get approval from your teacher**

Hypothesis: (What do you think the result will be?)

Experiment: (Write each procedure steps and supplies needed)

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

Supplies needed =

Collect Data: (create a data table to organize the data you collect during the experiment)

Variables: Identify the different variables for this experiment **AND** explain why.

1. Control Variable –
2. Independent Variable –
3. Dependent Variable –

Controlled Variable – stays the same

Independent Variable – It is what is changed or altered in the experiment (**cause**)

Dependent Variable – it is what is measured or observed in the experiment (**effect**)

Conclusion: Post-Lab Questions:

1. Based on your conclusion, how would you evaluate your hypothesis? (was it supported or no) Explain why.
2. Why do you think other groups who tested the same research question had different results than your group?

