Name:		Date:
Life Science		Period:
Scientific Method	: M&M Lab	¥
	solve them. Scientists do r method in order. However, a	way to think about problems and a way to not always follow the steps of the scientific fter a problem is solved, a scientist can use how the solution was reached.
The scientific m o	ethod can be broken down into	the following parts:
 Gather Form a Experir Record 	ne problem. Information on the topic. hypothesis. nent! and analyze data. conclusion.	
candies of each on charts, make gra permitted, becaus	ou will follow the steps of the color are in one bag of M&Ms. ohs, and draw conclusions.	e scientific method to discover how many It will show you how scientists record data on Do not eat any of the candies until you are o not open the bag until you are instructed to
candies in the who have exp	library Most likely, your bes	you will find any information about colored at sources of information are experts, people Look around, and you will find some experts
What colors o	f candies are found in these ba	gs?
Which color d	o you think is most common? _	\$F ₀
	bag of M&Ms ncils to match M&M colors	
DIRECTIONS 1 State the prob	olem: (Hint – What are you tryi	ng to find out?)

			• .
100	4	100	16.
Hyp	uir	162	13:
· · / E			_

1. How many total M&M's do you think are in your bag?

2. List all of the colors of M&M's you think	3. List <u>how many</u> of M&M's of each color
will be in your bag.	you think there are in the bag.
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.
8.	8.
9.	9.
10.	10.

Data/Resuits: (Actual numbers/colors of M&M's):

Total number of M&M's actually in the bag?

Data Table:

List each color	Color 1:	Color 2:	Color 3:	Color 4:	Color 5:	Color 6:	Color 7:
List the quantity of each color							

- e. Use the data that you entered to make a bar graph below.
 - i. Label the horizontal axis with the colors of the candies.
 - ii. Label the vertical axis with the numbers from 1 to 12.
 - iii. Color the bars the same colors as the candies.
 - iv. Give your bar graph an appropriate title.

Title:									
									·
								·	
				·					

Analysis (Calculations):

Show the fraction of each color in the bag:

Show the decimal of each color in the bag:

Show the percentage of each color in the bag:

Analysis (Questions): Conclusion

- 1. What was the difference between your hypothesis of the number of M&M's in the bag to the actual number?
- 2. What color is the most common in your bag?
- 3. In your opinion, how does this activity relate to scientists conducting experiments? (3-5 sentences)