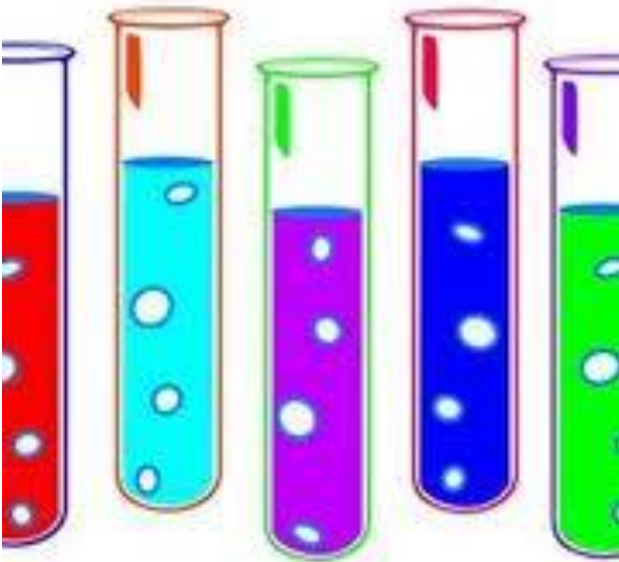

2015-2016 BMS Science Fair Steps and Checklist



Final project due
December 4, 2015

Name: _____

Period: _____

Partner's Name (if applicable): _____

FINAL DUE DATE: DECEMBER 4, 2015**Part 1: 2015-2016 Bethune Middle School Science Fair Check List**

Part #	Science Fair Part	Description of Part	Due Date	My Grade	Complete
1	Topic Choice	You will determine your science fair topic in class and submit it at the end of the period on a separate sheet of paper.	October 22, 2015	___/15=	
2	Question	What is the question that your science experiment will answer? Ex: Which fertilizer makes plants grow faster?	October 23, 2015	___/15=	
3	Variables	Write your Independent Variable, Dependent Variable, Constants, and Controls.	October 29, 2015	___/10=	
4	Hypothesis	IF..THEN..BECAUSE... An educated guess that predicts what the answer to the question is.	November 5, 2015	___/15=	
5	Materials	List all of your materials you will need AND the amount of each material.	November 10, 2015	___/10=	
6	Procedures	Write down the steps to do your experiment. Steps for success: <ul style="list-style-type: none"> ○ Do not use pronouns; use commands. ○ Be as specific as possible by using numbers and units. ○ Do multiple trials. Switch with another group and ask them to see if they could repeat them.	November 17, 2015	___/20=	
7	Data/Results/Graphs	Before experimenting setup your data tables and decide what graph you are going to use. While experimenting record your data in the data tables. <ul style="list-style-type: none"> ○ When done experimenting, create your graphs, and describe in sentences your data. 	November 30, 2015	___/30=	
8	Conclusion	Complete the sentence starters on the sheet given to you.	December 1, 2015	___/30=	
9	Final Board	See attached handout for how your board should be setup.	December 4, 2015	___/20=	

Part 1: Topic

Below is a list of websites to choose a science fair experiment from. **Remember: You must get all of your own materials and be able to do the experiment at home.** Make sure you check that before choosing an experiment!

Topic Selection Wizard: <http://www.sciencebuddies.org/> (Go to Project Ideas, 2nd tab at top)

All Science Fair Projects: <http://www.all-science-fair-projects.com/category0.html>

Science Fair Ideas: <http://www.sciencebob.com/sciencefair/ideas.php>

- a. Science field:
- b. Topic:

Part 2: Question

- a. Question:

- b. Is it testable? Can I come up with an experiment?

Part 3: Variables

Independent Variable		Dependent Variable	
Constant(s)		Control	

Title: The Effect of _____ (IV) on the _____ (DV).

Part 4: Hypothesis

If the _____ (IV) _____ (describe how it will be changed), then the _____ (DV) will _____ (describe the effect).

Part 7: Data Tables

Directions: Setup your data tables in the space provided here. See Teacher at tutorial or lunch for help.

Example:

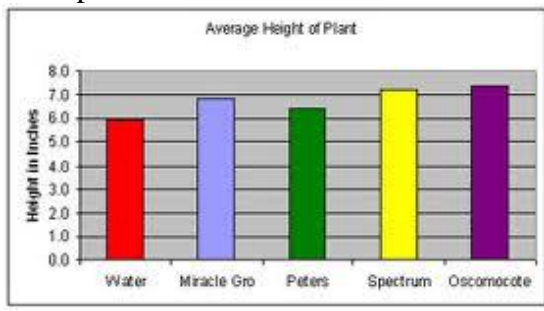
Which fertilizer makes plants grow the tallest?

Independent Variable	Trial 1	Trial 2	Trial 3	Trial 4
Water (Control)				
Miracle Grow				
Peter's				

Part 7: Graphs

Directions: Setup the graph you will use below. Remember: if your IV is going to be a number use a line graph, but if it is not going to be a number use a bar graph. Include the title of each axis and the units on each axis.

Example:



Part 7: Describe your Results

Directions: Write at least 4 sentences talking about your data or describing it.

Part 8: Conclusion

Directions: Finish the following sentence starters.

1. The question I was investigating was _____

2. I hypothesized _____

3. Looking at the data I found (you can include the same sentences from part 10) _____

4. This lab demonstrated (give the scientific explanation for why you got the results you did) _____

5. The information from this experiment is important because _____

6. During this lab some mistakes I made were _____

7. Next I would like to investigate (this question is expected to relate to your current topic) _____

Part 9: Final Board

Directions: You are expected to have a trifold board here by December 7, 2013. Having this in class on that day will earn you half your points for this section. The other half of your points will be for having your board appropriately configured. See the example of the backboard in the hall.

