

I did my experiment – now what?

Good work! You are on the home stretch! Here's what to work on next!

1. Organize your data into a table. Bring it March 31st!

- Use as many columns as you need
- Sometimes you may need two or three tables if you have two or three variables.
- Look at these useful sites for examples of how to organize your data

Science Fair Central: [Investigate and set up data](#)

Science Buddies Project Guide: [Data Analysis and Graphs](#)

Google images search for "[data tables for kids science fair](#)"

Trial	Block #1	Block #2	Block #3	Block #4
#1	15 cm	10 cm	60 cm	10 cm
#2	40 cm	13 cm	20 cm	10 cm
#3	10 cm	39 cm	184 cm	16 cm
Average	21.2 cm	20.2 cm	88 cm	12 cm

2. Graph your data. Bring this to show on March 31st!

Use one of the following sites to help you decide what type of graph to use:

[Study Jams](#): gives examples of different types of graphs

Science Buddies Project Guide: [Data Analysis and Graphs](#)

Discovery Education: [Analyze Data and Draw Conclusions](#)

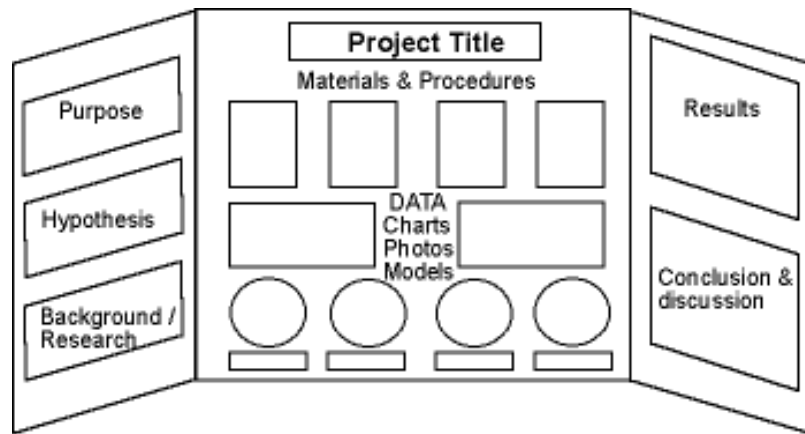
[Create a Graph](#) helps you enter your data and creates a graph for you to print out.

There's a tutorial on the site to help you learn how to use it.

3. Report your results with words. Bring this to show on March 31st

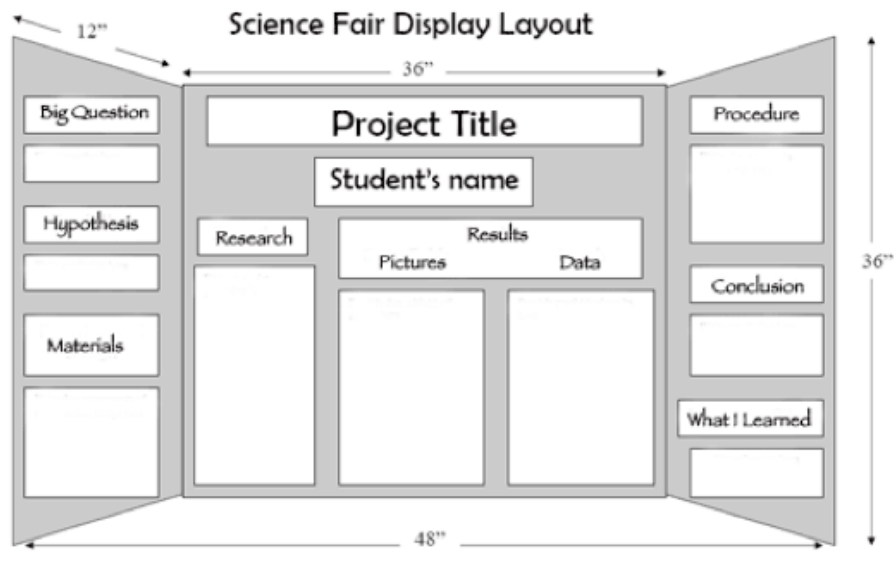
- Look at your graph and use words to describe what you see.
- Write a sentence about each variable, and how it responded.
Write sentences comparing one variable with another variable.

- c. Write another sentence comparing the variables with the control variable. This is when you report if you see a difference between your variables.
 - d. Be careful NOT to DECLARE that your results prove something is true or false. Just report what your experiment shows in this one instance in time.
 - e. Here's an example from Science Buddies. Look at the [Results](#).
- 4. Write a conclusion and "look to the future". Bring this to show on March 31st.**
- a. Write a sentence or two referring back to your original hypothesis or question.
 - b. Write a couple sentences explaining why you think your experiment produced the results that it did. Use this space to wonder a little. For instance, maybe if "you had started the seeds ½" deeper in the soil, they would have grown better." Or maybe if you had "given five choices of video games instead of twenty choices, you would have seen differences more clearly between adults and children."
 - c. Write a few ideas for how to repeat the experiment next time, and change just one thing to improve the results.
 - d. Science Buddies Project Guide: [Conclusions](#)
 - e. Ehow has some good steps and [an example](#)
- 5. Create a Clear and Easy to Read Board to display all your work! Get materials on March 24, 2015. Bring your board on April 9th.**
- a. Examine some good and bad boards on [Great Science Fair Boards](#) on Google Images
 - b. 5th and 6th Graders should include these parts:
 - i. Project Title
 - ii. Bibliography
 - iii. Hypothesis
 - iv. Background Research
 - v. Materials
 - vi. Procedure
 - vii. Data Table
 - viii. Graph
 - ix. Results
 - x. Conclusion
 - xi. Pictures with labels
 - xii. Acknowledgements if you want
 - xiii. Your name



xiv.

SCIENCE FAIR PROJECT BOARD



xv.

- c. Use some background papers to set off your sections. Use a ruler!! Print out your sections and titles on a computer, or print neatly and use markers that are easy to read. Be neat and proofread so we can pay attention to your amazing experiment!
- 6. Go over the final checklist one more time! Bring your project to the MPR at school on April 9th from 9:00 am until 1:30 pm.**
- a. Be sure and let a teacher know ahead of time if you are bringing an object that needs extra space or an electrical outlet.
 - b. Invite your family and friends to join us for viewing between 5:00 and 7:00 pm.
 - c. You can take your project home that evening, or leave it for display for one week after the fair.