## Project Title:

The title of my project is _____

_____

(this should be short, but should grab the audience's attention)

## Problem:

_____

_____

_____?

(Usually written as a question, but not always)

## Research:

Research your topic and find out as much information as you can. **You will need to find two (2) resources, summarize your findings, and create a bibliography.** *When using information provided by another person, you have to give them recognition; otherwise you're pretty much stealing their knowledge. Stealing is NOT COOL! Instead of stealing, give credit where credit it due.*

| Information from a *credible* web site, cite it like this: | Maybe you'll find the facts you need from a book. If so, this should do the job: | Perhaps you'll interview a professional. If so, do this: |
|---|---|---|
| **Ex. With an author:**<br>**Last, First. (Year, Month Date Published). Article title. Retrieved from URL**<br><br>Simmons, B. (2015, January 9). Article Title here. Retrieved from http://website.com<br><br>**Ex. Without an author:**<br>**Article title. (Year, Month Date Published). Retrieved from URL** | **Ex.**<br>**Last, First. (Year of Publication). *Title of work*. Publisher City, State: Publisher.**<br><br>Finney, J. (1970). *Time and again*. New York, NY: Harper Collins. | **Ex.**<br>**Last, First. (Year, Month Date). Interview type.**<br><br>Marino, B. (2014, October 18). Personal Interview. |

Source #1: _____

_____

_____

Summary of Findings: _____

_____

_____

_____

_____

_____

Source #2: _____

_____

_____

Summary of Findings: _____

_____

_____

_____

_____

_____

**Hypothesis:**

Based on my research, I believe _____

_____

_____ because _____

_____.

# PROCEDURE: (Make sure to repeat this process 3 times)

These should help....

- To begin, ___
- Next, ___
- Then ___
- Once ___ was complete, I ___
- ___ minutes later, ___
- Afterwards, ___
- As soon as ___
- During ___ , I ___
- While ____
- Lastly, ___
- To conclude my experiment, ____

There are other transitional words or phrases that are not listed. Use as many as necessary.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

(If you have additional steps, please use scratch paper)

## Materials:

In order to perform my science experiment, I will need materials such as:

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

*Be VERY SPECIFIC (ex. Instead of writing "balloons", write "Exactly 4 large balloons"

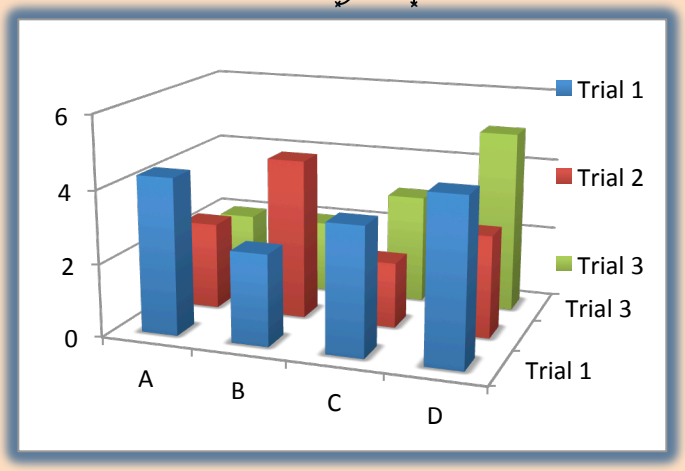
## Data:

Now it's time to record all your information, observations, and measurements in a notebook or journal. We've attached extra papers in this packet for you to do this.

You will also need to create a chart or graph to display the data you've collected. Remember, your data is your evidence. Scientists need evidence to support their conclusions. Since each science experiment is unique, only you can decide how your data should be displayed.

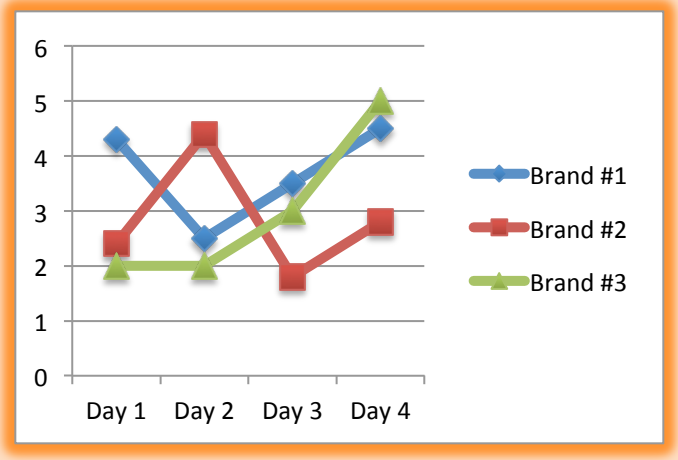
Here are some examples.

### Bar graph



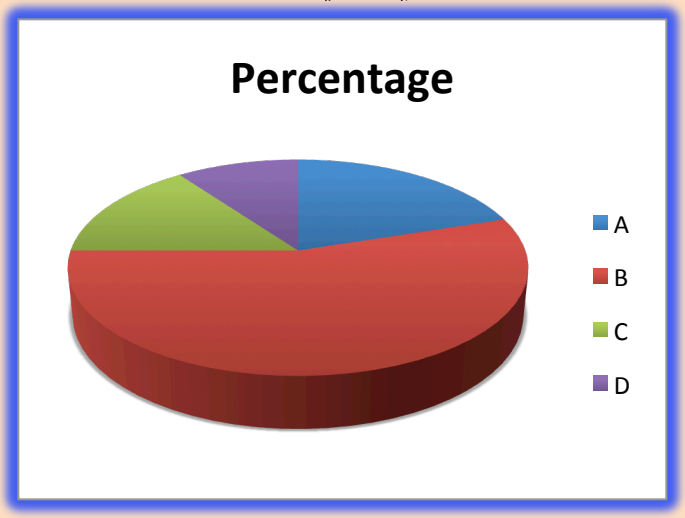

Bar graphs are excellent for comparing relationships between sets of data

### Line Graph



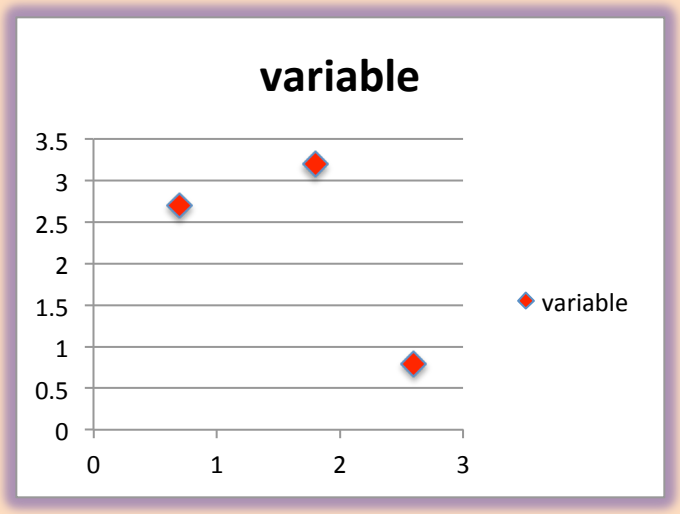

Line graphs are great for tracking changing data over a period of time

## Pie graph




Pie graphs are used when comparing one piece of data with all data

## Scatter plot




Scatter plots identify relationships between 2 variables

Other ways to display your data include *Stem-and-Leaf Plots, Pictographs, Histograms, Line Plots,* and many more. Your teacher can help you with any of these. You must decide which one will be the most appropriate to display your data. Remember to make it colorful and easy for classmates and teachers to understand.

Which chart or graph will you use to represent your data? Why?

I've decided to create _____

because _____

_____.

Some great online resources to help with graph making:

1. Create-a-graph: http://nces.ed.gov/nceskids/createagraph/
2. Charttool: http://www.onlinecharttool.com
3. Chartgo: http://www.chartgo.com

# Conclusion:

Based on your data, what were your results? Was your hypothesis correct or not?

What did you learn from your research and from this experiment?

How can you apply this knowledge in the real world to help solve a problem?

If you or someone else were to repeat this experiment, what change(s) would you make to the procedure?