What is the purpose of this invention? (Explain in detail)

I want to design and build _____

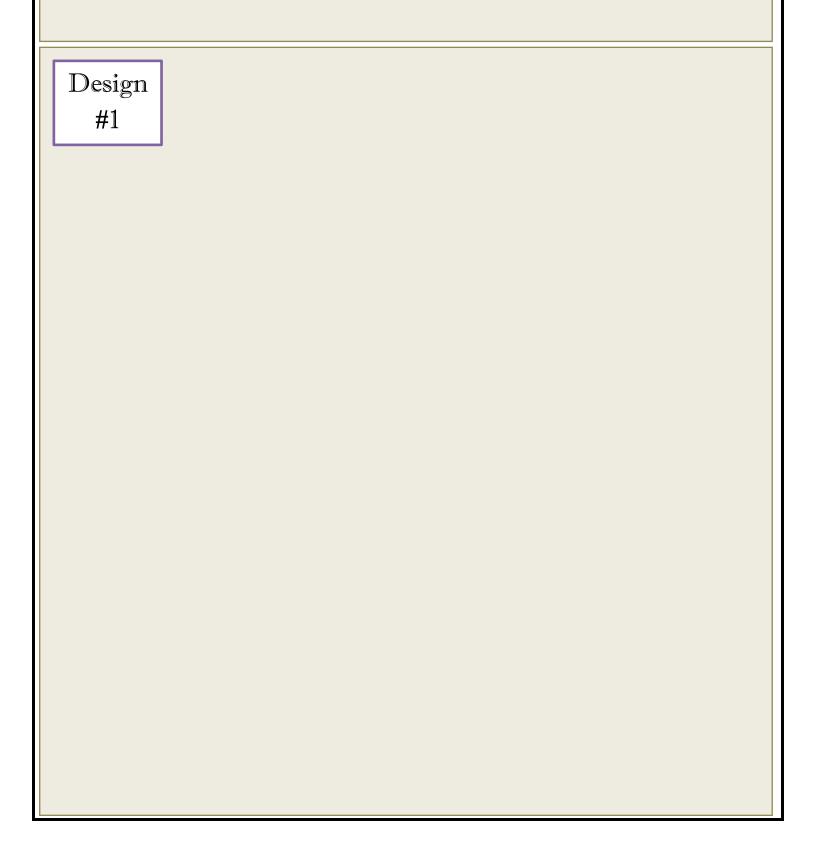
The goal of this project is to _____

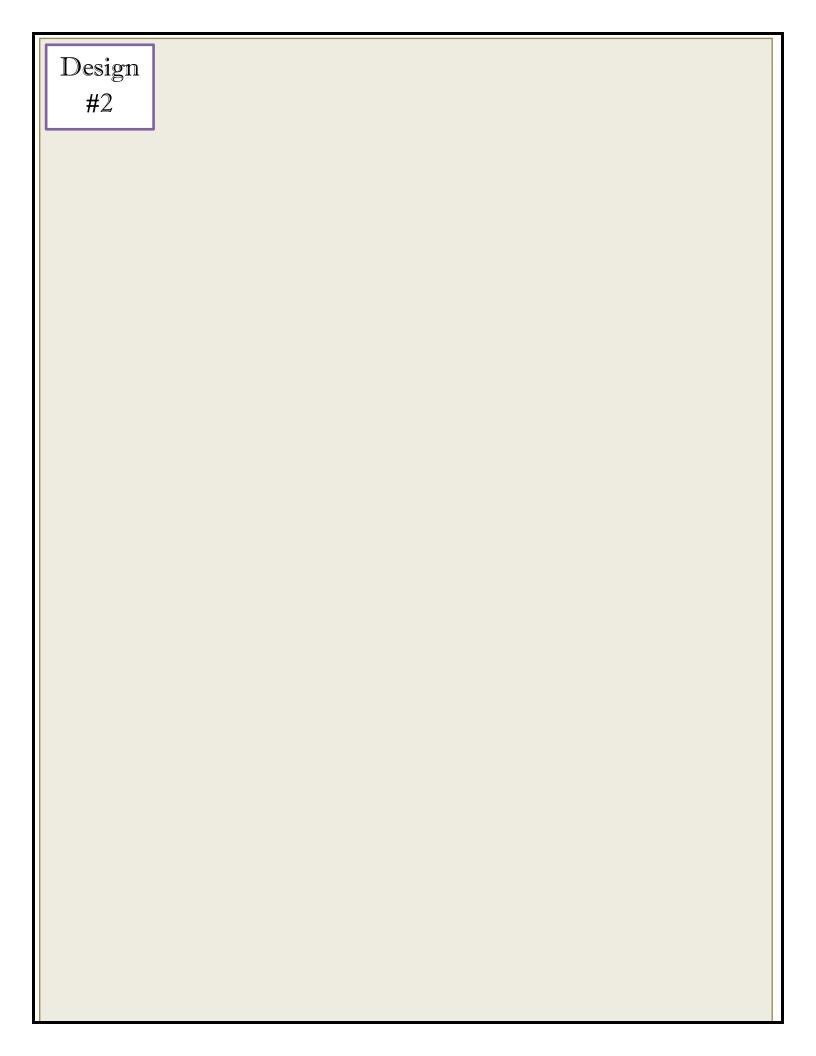
Research: Research your topic and find out as much information as you can. You will need to find two (2) resources, summarize your findings, and create a bibliography. When using information provided by another person, you have to give them recognition; otherwise you're pretty much stealing their knowledge.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

Source #1:
Summary of what I learned:
Source #2:
Summary of what I learned:
Source #3:
Source #3:
Summary of what I learned:

People who would also be interested in my product are		
Solutions to this problem that already exist include		
I believe these solutions are <u>inadequate</u> because		
Design Requirements:		
My design must weigh		
It must be small enough to		
It must be no bigger than		
To build a prototype, it will cost about		
I plan to test my prototype by		
My prototype must be able to		

Brainstorm Solutions: For design #1, draw your original design for your prototype. For design #2, draw an improved design from your original. The purpose is to show progression and improvements being made. These drawings will eventually go on your science board. Remember to label all parts.



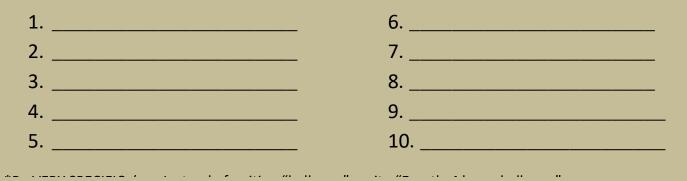


PROCEDURE: (Make sure to repeat this process 3 times)

 These should help To begin, Next, Then Once was complete, I Once was complete, I Afterwards, Afterwards, 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.	
	5	
6		

Materials:

In order to build my prototype, I will need the following materials:

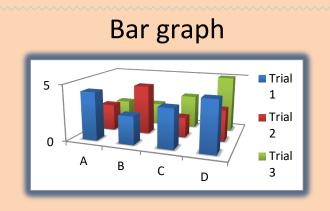


Data:

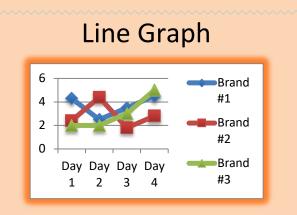
Now it's time to record all your information, observations, and measurements in a notebook or journal.

When you were testing your prototype, how did you determine it was working? Remember, <u>your data is your evidence to show that your prototype works</u>. Engineers need to provide evidence to show what they've created does indeed work. Each design is unique, so only you can decide how your data should be displayed.

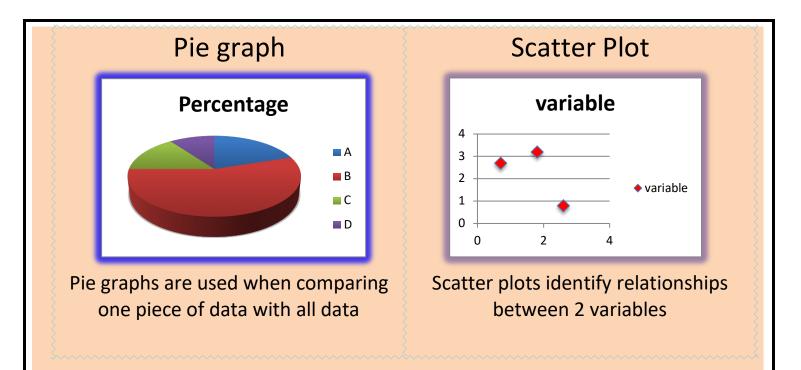
You MAY need to create one of these.



Bar graphs are excellent for comparing relationships between sets of data



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



Other ways to display your data include *Stem-and-Leaf Plots, Pictographs, Histograms, Line Plots,* and many more. Your teacher or your parents can help you with any of these. <u>You</u> must decide which one will be the most appropriate to display <u>your</u> 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 _____

Conclusion:

Your conclusion needs to show the value of your project and how it can be applied to everyday life. Your conclusion should be at least one paragraph, possibly several. Answer some of the following questions when writing your conclusion.

- What did you learn from building the prototype?
- In what way(s) was the prototype important?
- Could you improve the prototype any more?

• How does the prototype help people understand the real world better?

- What new insights did you discover?
- How can this information be applied to real life?

• What knowledge was gained by designing and building the prototype?

(Use additional paper if necessary)