

Patent Documents

Title of invention: _____

INVENTOR: _____

Science period _____ English Teacher _____

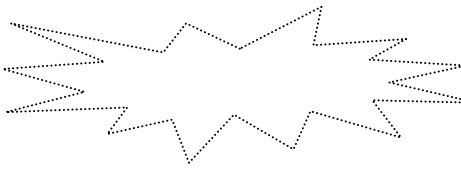
Partner _____ Ph#: _____

Packet due date: _____

Table of contents:

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I. Problem	2
II. Solution.....	2
III. Goal.....	3
IV. References Cited.....	4
V. Research.....	5
VI. Why do we need this?	6
VII. Design Criteria.....	7
VIII. Idea.....	7
IX. Construction Plan.....	8
X. Testing Plan.....	9
XI. Revisions.....	9
XII. How is it used.....	10
XIII. Your Backboard.....	10
XIV. Reflection.....	11
XV. Calendar.....	12



Due:

I. Problem: Describe a problem that you currently have:

The problem I am trying to solve is... _____

Sketch a diagram of the problem you mentioned above:

II. Solution: Describe the solution to this problem:

To solve the problem I am going to make... _____

Sketch a diagram of the solution you described above:

III. Goal:

Title of project: (What is it?) _____

Customer: (Who will use your invention?) _____

Function: (what does it do?)

Engineering Goal:

The design and construction of _____

(Title)

for _____ to _____

(Customer)

(Function)

Example: The design and construction of a cart hook for grocery shoppers to keep the grocery cart from rolling away when you are putting the groceries in your car.

IV. References Cited

Search the internet to see if your solution exists. If not, find patents that are similar to yours or part of yours. NOTE:

1. If your invention exists, you may not invent it!!! ☹
2. If you have questions about whether or not your invention is the same as one you found... Ask your teacher.
3. You need 4 if you have a partner, 3 if you work alone!!!

HINTS: -The easiest place to search is Google Patent Search: (www.google.com/patents)
-You can also use the US Patent office: www.uspto.gov (click "Patent Search")

Key words you used to search to see if our invention exists:

- _____
- _____
- _____
- _____
- _____
- _____

What did you find? Write the Patent #, date and the inventor then BRIEFLY describe the inventions you find.

Ex. 3,495,688 - 2/17/1970 - Elmer Isaacs : a device that locks the shopping cart wheels to prevent theft.

1. _____

2. _____

3. _____

4. _____

Due:

V. Research

Look up information, fact or statistics about anything that supports why your idea is a good idea. BE CREATIVE. You may write a survey. If you do, attach a copy of the survey and give your results. (You need 3 if you have a partner, 1 if you work alone)

Ex: Keyword(s): Shopping cart deaths

Source: aap.org. American Academy of Pediatrics. February 22, 2008
http://www.aap.org/family/ShoppingCartPolicy.pdf

Notes: "An estimated 24,200 children younger than 15 years, were treated in US hospital emergency departments in 2005 for shopping cart-related injuries."

1. Keyword(s): _____

Source: _____

Notes: _____

2. Keyword(s): _____

Source: _____

Notes: _____

3. Keyword(s): _____

Source: _____

Notes: _____

VII. Design Criteria... What should your invention look like, do or accomplish in order to be successful?

List at least 3 things such as performance, size, etc. that you will test to determine if your design is successful.

Example: The Cart hook should be small enough to stick in your pocket so that you can take it with you.

1) _____

2) _____

3) _____

4) _____

5) _____

VIII. Your Idea:

How did you come up with our idea?

I began to think about this when... _____

Due:

IX. Construction plan

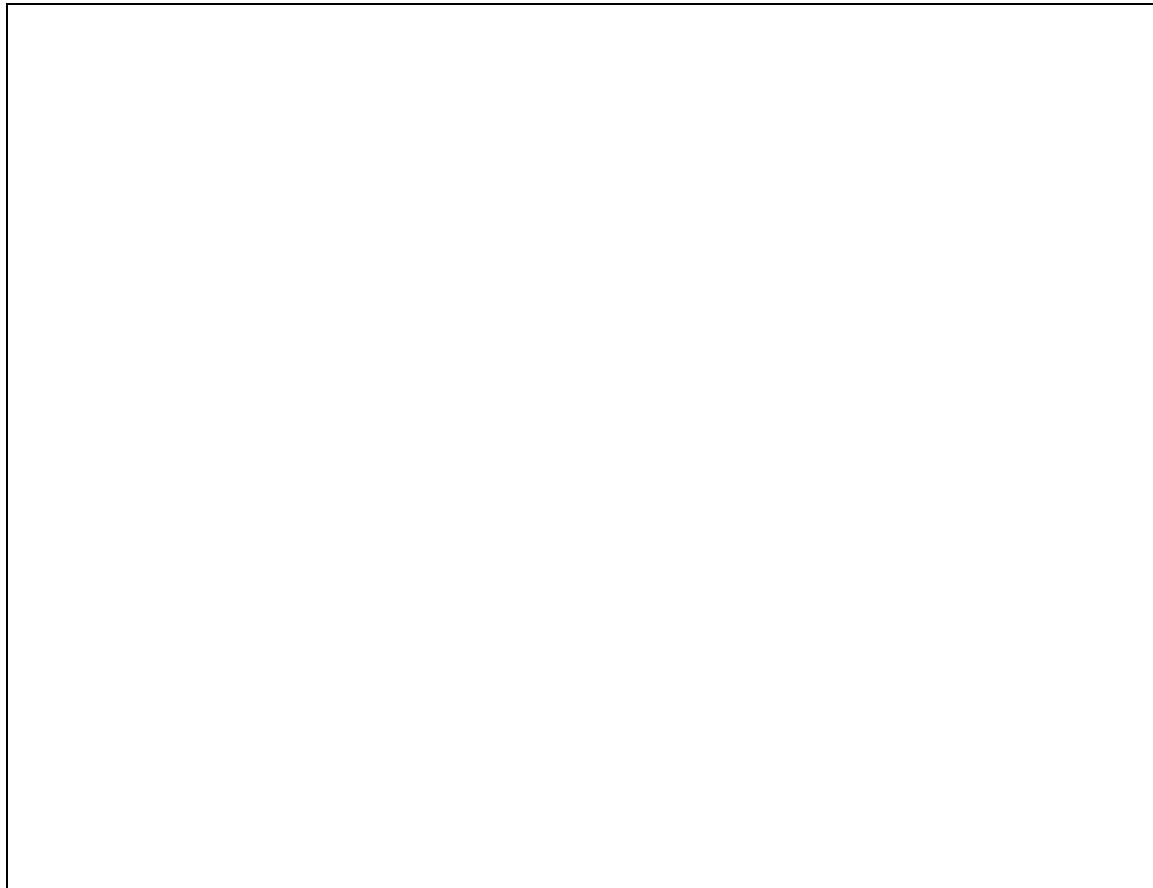
Materials:

The supplies we need for our invention are _____

We are going to get these supplies from _____

The days and times we are building this invention are _____

Diagram: Draw a diagram of the invention you want to make
BEFORE YOU MAKE IT!!!



X. Testing Plan: Look at your Design criteria (section VII). Does your invention live up to the criteria you set? Below write the results:

	Design Criteria	Pass or Fail?	Comments
Ex	Small enough to stick in your pocket	Pass	It fits in your pocket.
1			
2			
3			
4			
5			

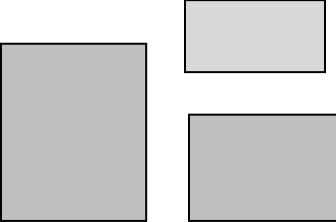
XI. Revisions: What revisions took place while you were making your invention? Why did you make the revision?

	Revision	Why?
Ex.	I replaced the bungee cord with a metal rod	The bungee cord was springy and moved the cart around.
1		
2		
3		
4		
5		

XII. How is it used?

List (step by step) how your item is supposed to be used.

XIII. Your Backboard

<p>Logo</p>	<p>Title</p>	
<p>Why do we need this? (section VI)</p>	<p>Problem (section I)</p>	<p>Where I Got my Idea: (section VII)</p>
<p>How is it used? (section XII)</p>	<p>Engineering Goal (section III)</p> <p>Picture(s)</p> 	<p>Testing Plan & Revisions (section X & IX)</p>

XIV. Reflection

The part I liked the most about my project was...

The part I wish I could redo or I would do better next time is...

What grade do you think you deserve on this project? _____

Why? _____

Write down one thing that you learned while doing the this project: _____

Fill in the one you agree with the most:

Did you enjoy the invention project?

YES!!!	Kind of	Not really	NO WAY!!!
①	②	③	④

Did you do your best on the invention project?

①	②	③	④
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Did you come up with a good idea for your invention?

①	②	③	④
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