

Reinventing the Wheel STEAM Project  
Ms. Pastor's ELA  
Spring 2015

Due Date : **Thursday March 19th**

For this project we will be focusing on food! Not just any food though, food that was invented during the Industrial Revolution and changed the world to what we know and love today. These are some of the most popular foods in our society today and have not only impacted our diets, they have impacted our economy. Students will be assigned a food in which they will need to learn how to make from scratch like the inventors of the food themselves had to do. They will document this process and the steps that they took in order to get to their end result of a finished product. Once they have done this, they will bring their food into class and have it on display for all to see just as the inventors did at the 1904 World's Fair where many of these foods were first introduced. Here is a list of the following foods that will be available for students to choose from:

- Hamburgers
- Nila Wafers
- Cornflakes
- Popsicles
- Hershey Bar
- American Pizza
- Hot Dogs
- Puffed Rice
- Peanut Butter
- Coca-Cola
- Animal Crackers
- Crayons (I know they aren't food but this one is just too fun to not
- Waffle Cones
- Cotton Candy
- Mayo
- Dr. Pepper
- Chocolate Chip Cookies
- Iced Tea
- Funnel Cake
- Mustard
- Pepsi
- Canned soup

include)

Students will recreate these inventions and keep a journal of all the steps they took to come to a successful solution. Yes, they even need to document the failed attempts. At the end they will write a reflection of the process and what worked for them and what did not.

Finally, students will need to research their actual invention and give a short presentation in class about the history of their food. A worksheet with all the necessary questions will be handed out for the students to fill out and use as a guide throughout their presentation.

### Point Break Down

Research Worksheet	20 pts
Invention Journal	20 pts
Reflection	10 pts
Invention Recreation	50 pts
Presentation	20 pts

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Total

120 pts

	<b>Developing</b>	<b>Meets</b>	<b>Exceeds</b>
<b>Research Worksheet</b>	0-8 pts Incomplete worksheet. No works cited on the page. No effort put forth.	9-14 pts Worksheet is complete but few to no works cited. Key information presented but with little detail.	15-20 pts Worksheet is complete with all works cited. Key information is present and shows the student researched all aspects.
<b>Invention Journal</b>	0-8 pts Student has no journal or a journal with little to no information about the steps taken or the process they went through to come to an end result. No sources cited.	9-14 pts Student has a journal that has information about the steps they took to come to an end result but is slightly disorganized or is missing some information. Student has sources cited but may be incomplete.	15-20 pts Student has keep a well organized journal with dates and sources present. Step by step process is shown and the student took time to write down key information that explains their process during the project.
<b>Reflection</b>	0-4 pts Student has no reflection or a reflection that is basic with no personal connection.	5-7 pts Student reflection is basic with some key insight to the process.	8-10 pts Student reflection is complete and insightful to the process students went through and shows reflection and growth through the process.

<p><b>Invention Recreation</b></p>	<p>0-24 pts Student did not complete the activity and has no finished project to show. The project was not made from scratch and directions were not followed. No sources cited.</p>	<p>25-39 pts Student has a finished project but some key pieces are missing or were not made from scratch. sources cited but may not be complete.</p>	<p>40-50 pts Student has a finished product where all aspect were made from scratch with all sources cited.</p>
<p><b>Presentation</b></p>	<p>0-8 pts Student did not present or had little to no information to present to classmates. Student did not have a project in class to present or other pieces of the project were not complete in order for the presentation to be successful.</p>	<p>9-14 pts Student present their project, sharing key pieces of information about their invention. Student had most materials ready for presenting and the invention ready for classmates to observe and/or sample.</p>	<p>15-20 pts Student is readily prepared for the presentation with the project complete and all information presented in a way for classmates to learn and observe from their project. Observation and/or samples available. Students able to answer any questions clearly about their project and or invention.</p>

## Tips and Tools

**Research Worksheet-** With the research worksheet, utilize website that are reliable. Wikipedia may have a lot of information but it is not always right. Websites that are linked to educational institutes or programs (.edu sites) are very helpful and national programs (Library of Congress or Smithsonian for example) will have great resources and key information. Look for those type of cites first!

**Invention Journal-** We will make little Journals in class for the students to use if they would like. If students want to keep notes another way that is fine. Just be sure to keep track of dates and steps taken and all attempts to recreate the invention. Write down things that worked and things that did not and what you will change for the next time. If you used one recipe and change to a different one, write it down!

**Reflection-** This will be the “so what” of the project. Once you are done you will reflect on the project and what you learned from completing the assignment. This is the time to be honest and tell me how you think you did and what you liked and did not like.

**Invention Recreation-** Recreating food is supposed to be fun! But obviously we will need recipes and how to's to complete everything. You will need to find the how to and research all the tools you will need in order to come to a finished product. You need to try to make these things from scratch as much as possible. There are sites all over the internet for “do it yourself” projects to complete at home with household products. If you have any concerns about this email me!!!! I am here to help you as much as I can. Remember, you can not just go to the store and buy the product and call it your own, that is plagiarism!

**Presentation-** The day that we present, you will bring in your final project to share with the class. If you want to provide samples you may but you do not have to. Otherwise, you can just bring in one finished recipe of your invention. You will present information that is on the research worksheet and then talk about your trials and success during the project.

## Research Worksheet

You will research and answer all of the questions on this worksheet to get the full points for this part of the assignment. Please cite all websites that used to answer any of the following questions in the space provided.

What is your invention?

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Who is given credit for the original invention?

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Website:

Where was it invented or first presented to the public?

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Website:

What are the key ingredients to your food/invention?

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Website:

What is the most popular brand associated with this product today?

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Website:

What websites did you utilize to find "how to's" and/or recipes for your invention?

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Website:

Give two fun facts about your food/invention and cite the websites you got this information. \_\_\_\_\_

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Website:

How has this invention impacted our diets?(Do not answer is you have crayons)

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Website:

How else has this invention contributed to our society and/or economy?

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Website: