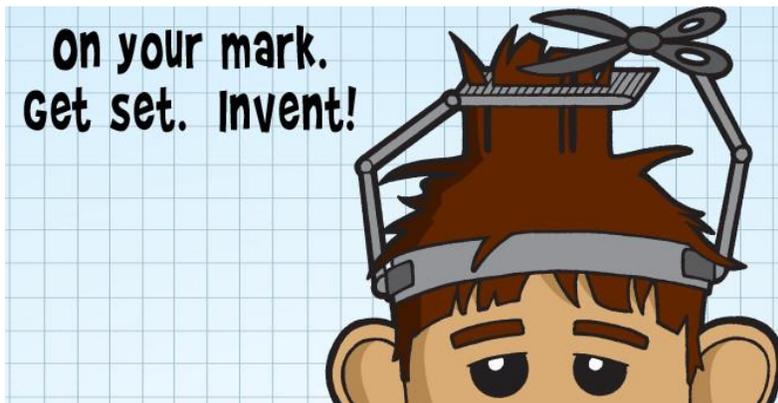


Fairforest Middle School

2016-2017 Invention Convention



The purpose of the FMS Invention Convention is to help students develop their ability to think scientifically and implement the technological design process. Students will

be asked to use engineering skills to create and built an invention that solves a problem they have observed.

Below you will find due dates for 2016-2017 school year. We are providing this information to you early, so that you can be informed and aware of upcoming, school-wide Invention Convention activities. Keep an eye out for more specific requirements to follow.

DUE DATES:

November 30th - Identify a Problem

- In your invention convention journal brainstorm problems you have. These can be problems you have from making observations around school and home.
- Strive to come up with at least 3 problems that you would be interested in solving.
- Survey others to determine which problem would have the largest need.
- Choose one problem that you will focus on during this invention convention.

December 7th - Propose a solution

- In your journal brainstorm solutions that could solve your problem.
- Narrow down to one solution that best solves the problem.
- Make sure that your one solution not only solves your problem but meets all requirements.
- You want to be sure you have or can get all of the materials you need to build your invention convention.

December 14th – Plan your design

- In your journal list all materials needed to create your invention.
- In your journal draw a detailed diagram of the invention that will solve your problem
- Label each part of your invention diagram and submit for approval from your teacher.
- Board Sale: Listen to announcements to find out what days boards will be sold before Christmas Break.

January 19th- Implement your solution and evaluate your product design

- Use your materials to create your invention at home.
- Document this process through pictures and reflections in your journal.
- Once you have created your model test it to see if your problem has been solved.
- If the problem was not solved then you need to re-design and make needed changes.

January 26th - Communicate your problem design and solution

- Once you have your invention completed, think about your marketing plan.
- Create an advertisement, jingle, poem, script of a commercial...etc. to market your invention.

February 16th Submit your invention and display board

- Your display board should include:
 - Title of your invention
 - Purpose of your invention (Problem and Solution)
 - Diagram of your invention with labels explaining its parts and how it works
 - Photos of your invention
 - Results of any surveys / research you did involving your invention (graph of survey results)
 - Marketing Advertisement
 - Paragraph Evaluating your process and final product