

Astounding Inventions



Let your imaginations go wild!!

Create an invention that will solve a problem or make some one's life easier.

What you need to do

- **Look around you or ask from family and friends about problems they have.**
- **Think of a solution**
- **Make a model for your invention: It doesn't have to work and it can be smaller than the real life invention.**

Some Possible Topics

- **Your daily problems**
- **Energy conservation**
- **Climate change**
- **Time saving**
- **Improving safety**
- **Pollution**
- **Alternative fuel**

New This Year

Two students from the same grade can form a group and submit one invention.

Entry from an individual student is allowed as always

Sample Inventions

Cookie and Milk Cup

Put 2-3 of your favorite cookies, so you don't need extra plates for them.



Banana Guard

Are you fed up with bringing bananas to work or school only to find them bruised and squashed?



Banana Guard allows you to safely transport and store individual bananas and lets you enjoy perfect bananas any time, any where.

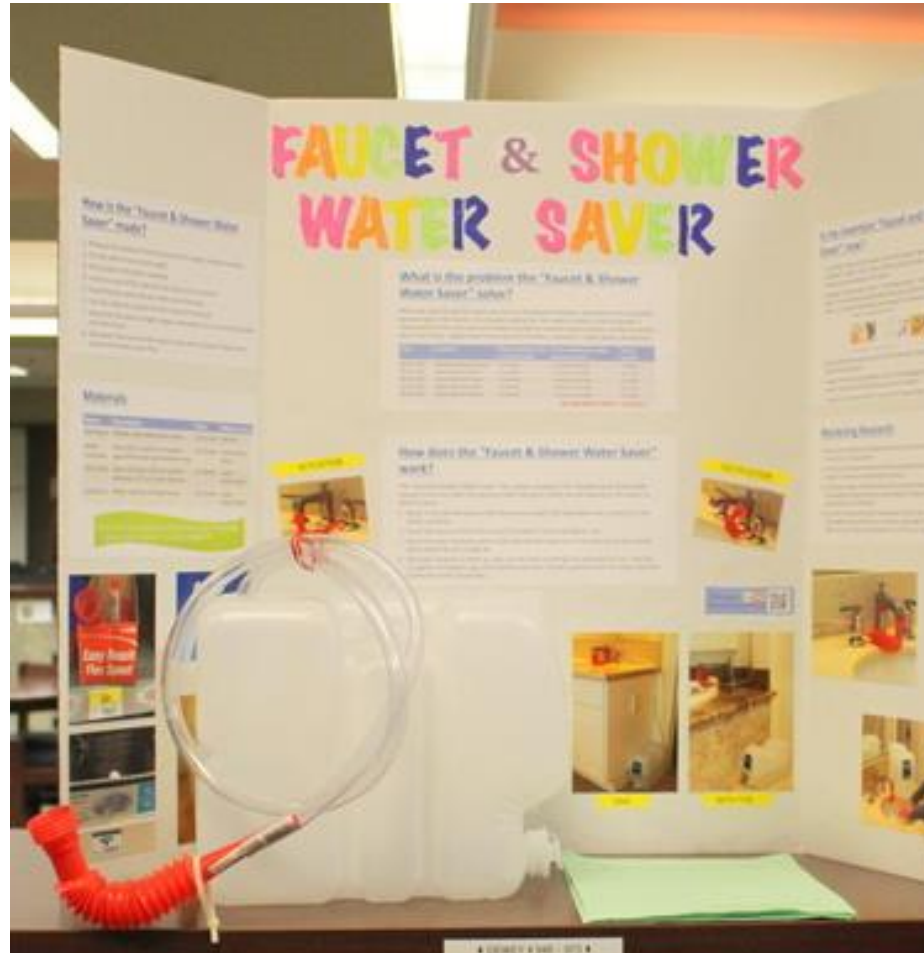
Plush Car Slippers

Do you get up at night to drink water, go to the toilet...and bump into everything and anything possible? Do you wish you could see in the dark? Or at least protect your feet from the inevitable bumps?



These plush slippers have bright LED lights that are triggered by your footsteps and light up the floor 30

Faucet and Shower Water Saver



Makes sure water is not wasted while waiting for it to warm up

Retractable Cleats

How is it made?

1. An existing rubber sole is prepared to fit the outline of a pair of cleats.
2. Holes are made for the rubber to fit into.
3. The sole is then wrapped in material beyond the holes, creating a barrier when the rubber is inserted.
4. The sole is then cut into the shape of the sole for better fit.

Materials

- Rubber
- Cleats
- Cutting and Etching Tools

Retractable Cleats
by Jake Terpening

What problem does the Retractable-Cleat solve?

Have you ever had both a basketball game and soccer game on the same day? Well it is a pain to change shoes along the way! With the new Retractable-Cleat all sports are just at the click of a button and you're ready to go! Here's the best of the best!

Have you ever slipped on the soccer field because your cleats are worn down? With the new Retractable-Cleat you can avoid walking on hard surfaces that scratch down your cleats. No more slipping on the field!

Have you forgotten your baseball cap? Never worry about being without an cap by using your cleats as a hat! Just click while wearing a soccer game when you back to your Retractable-Cleat along... Just pop out the rubber sole and it's on your way!

Have you ever wanted to change teams but you're not prepared with the proper shoes? The new Retractable-Cleat has you ready for any athletic event at all times!

How does the Retractable-Cleat work?

Your invention should include the following:

Inventor's Notebook

Model (doesn't have to work)

Display Board or Video pitch

Due: Tuesday January 9, 2018

8:30 am in the library

Interest form or email due on Nov 24

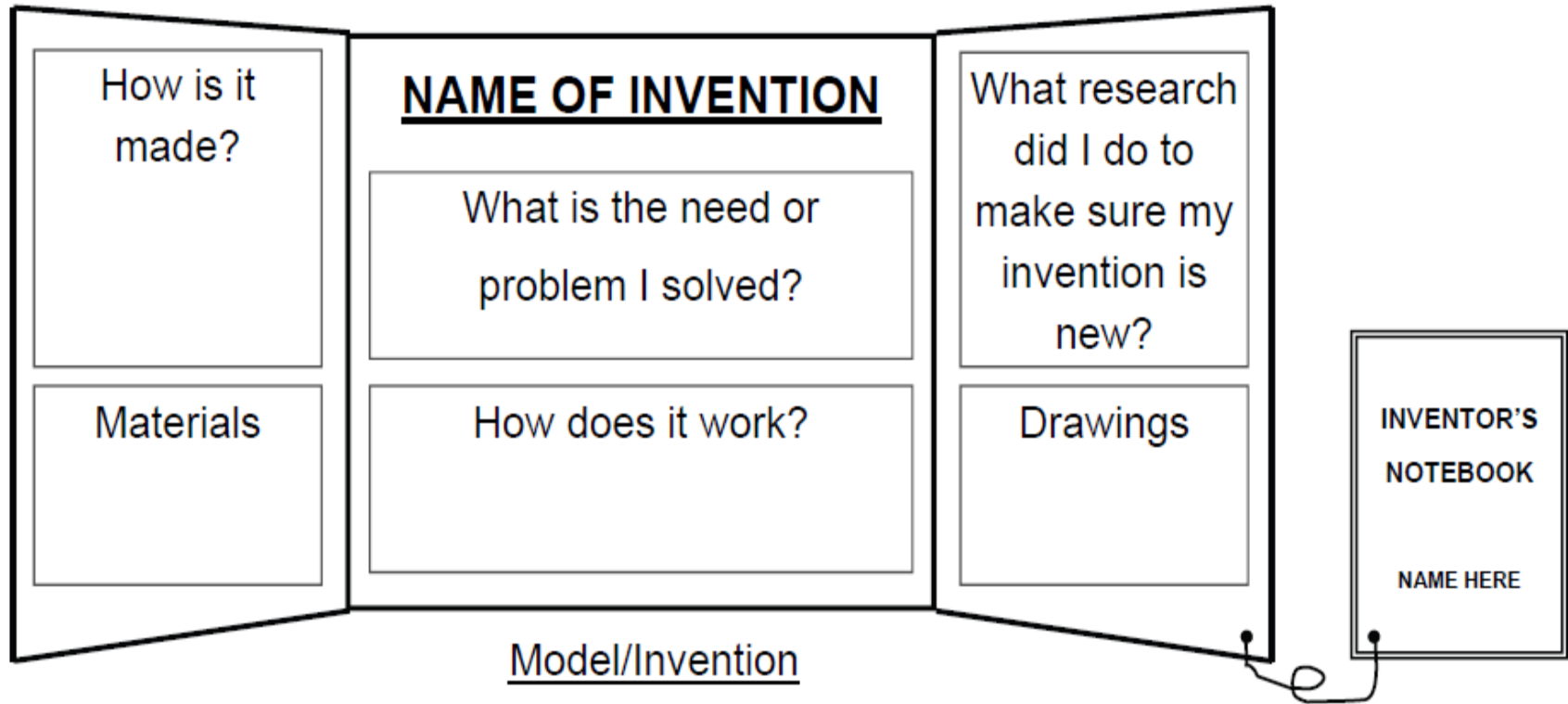
Inventor's Handbook

Keep a log of your project

- Draw your idea
- Search the patent office, online catalogs and ask family and friends to find out how your invention is **unique**.
- Do some **market research**: How much family and friends would pay for it

Inventor's Display Board

(A presentation of the info in the inventor's log)



This is a sample board. You can change it and for example can add pricing and marketing research information.

Or a Video Pitch

- **Speak clearly, loudly and slowly**
- **Be creative and get the viewer excited about your invention**
- **Inventor's face does not need to be in the video**

Will answer the same questions listed above in the Inventor's Notebook

Should show,

- **the materials used,**
- **the prototype,**
- **how it works**
- **who helped you with the invention.**

Interview

At the district level each student will be interviewed and asked to explain their invention

Important parameters are

- **Student's own original work**
- **Usefulness**
- **Research performed**
- **Illustrations**
- **Material the model is made of**

Time line

Deadline for interest form or email	Fri Nov 24, 2017
Invention due	Tue Jan 9, 2018
School Winners announced	Mon Jan 15, 2018
Irvine Valley College Invention Setup	Fri Jan 26, 2018
Irvine Valley College Competition	Sat Jan 27, 2018

Rules

- K-6 students can enter (6th graders are not recommended as they have the science fair)
- Submissions from individuals or groups of 2 are allowed
- Invention ideas, illustrations, and descriptions should be the child's own. (parents can help K-3 students in the writing parts)
- Parents are invited to assist children in making and photographing the **invention model** since the invention will be judged on the child's ideas, not on the model.

For Further Information

For the Rule Sheet, Inventor's Notebook and other files check

<http://alderwoodpta.com/Astounding-Inventions/>

If interested to participate, please fill out the form for each student at

<https://goo.gl/forms/kaJaT8cXjzaTBkHr2>

For any questions contact Paniz Ebrahimi at
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