



Culver TEAMS Report

**Building a Better Education by Connecting
Technology, Engineering, Arts, Math, and Science**



TEAMS EXTRAVAGANZA April 13-24

Every teacher at every grade will integrate and offer a project based on water or community service.

Elementary School:

- Kinder-working with Three Rivers Humane Society to make an adoption kit for newly adopted dogs
- 1st-educating community to use reusable grocery bags
- 2nd-5th-learning about Culver's water supply and educating the community

Middle School:

- Working on project called "Connecting Communities with Haystack Reservoir," which includes researching water and soil in the reservoir, mapping coordinates, learning the history of Haystack and how it can be used for recreation

High School:

- Improving Culver Memorial Park: testing soil, planning circuit training, and surveying high school students for their ideas
- Tracing Culver's irrigation water

Let us know how you can contribute!

If you would like to volunteer your time or resources, call your student's teacher and let them know.

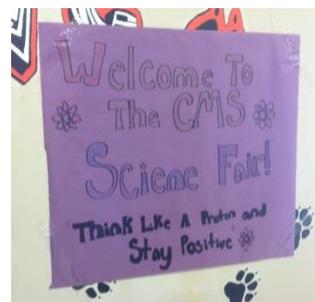
Science and Engineering Fair goes to STATE!

Culver Middle School had their second annual Science and Engineering Fair from 3:00-5:30 on Monday, February 23. Organized as a series of assignments which led all 6, 7, and 8th grade students towards completing an experiment or engineering a new product, all students followed national Science Fair rules and were judged by three different judges. Student scores were averaged with the top ten student exhibits finding a spot at the State Science and Engineering Fair in Portland on March 20. Science teacher Karen Young earned grants to help with the cost of materials for students, as well as pay for transportation to attend the fair in Portland. Great job!

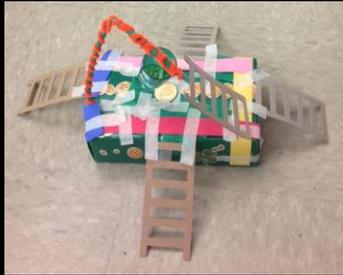
Destination Imagination goes to STATE!

For the first time ever, Culver High School sent a team to the Destination Imagination Portland regional competition on March 7 in Wilsonville, Oregon. Team manager, Brad Woolledge, offered to coach a team of 6 students to compete in this creative problem solving tournament. He was happy to see their score place them in the State Destination Imagination tournament in Salem, on April 11. The team chose to compete in the category 'Feary Tales' a communication and artistic challenge. Each team brought trained volunteers to support the running of the competitions. The entire organization is based on volunteer effort, including all of Mr. Woolledge's time in coaching and driving the students to competition. Culver would love to continue to be a presence in this creative and innovative problem solving competition. If you are interested in coaching/managing a Destination Imagination Team at any grade level elementary, middle, or high, let your school administrator know.

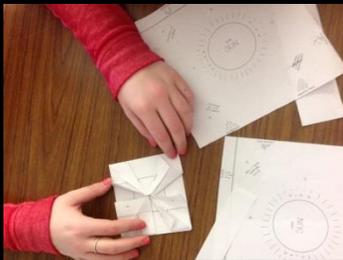
Destination Imagination competes at Wilsonville High School.



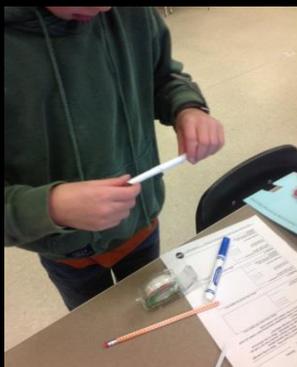
Students, teachers, families and community members viewed many exciting projects made by 6-8th graders.



One of many Leprechaun traps engineered by First grade students.



Freshmen students followed directions to create an origami sun.



All K-5 Culver students did engineering challenges on January 30th.

Leprechaun Traps Empty!

First grade students in Mrs. Rahi's and Mrs. Dix's first grade class learned the basic processes involved in engineering over the past month in order to catch a rascal leprechaun. Students learned the processes and then imagined different ways and lures to tempt a leprechaun into their trap. Some of the traps involved leprechauns falling through trap doors or ladders. Other traps had sticky glue spread on the bottom or on golden coins, which tempt the little green men. One trap had an elaborate net, ready to cover them when sprung. Alas, on March 17, when the classroom door opened, not a single leprechaun was caught. The leprechauns left a trail of trickery, which was all in good learning.

Alternative Energy Education

Culver Freshmen students have learned about solar science using the new Next Generation Science Standards and Assessments. Working with the Solar Dynamics Laboratory (SDO), NASA Heliophysics Community of Practice, and Cooperative Institute for Research in Environmental Sciences (CIRES), STEM Coach Maggie Prevenas facilitated teacher Darrell Goad pioneering the curriculum. The students have a world class set of learning experiences that THEY choose. Students ultimately collaborate to design a solar science museum exhibit as the final project assessment. They have to be able to communicate what they learned, design an interactive exhibit, and accept feedback from other students. This will require not only science, but technology, engineering, and creative problem solving skills. A classroom visit from Joe Mazzerella, a local solar energy contractor from Sunlight Solar Energy, helped the students learn how the information they are learning is both practical and important in their future.

Engineering Day Activities at Culver Elementary

All Culver Elementary students in grades K-5 participated in a whole school Engineering Design Challenge Day on Friday, January 30 from 11:30 to 12:15. All classroom teachers, educational assistants, and special guests, were invited to challenge students to create a project or solution to a problem. Some of the challenges included a raw potato circuit, pom-pom shooters, bubble wands, clothespin cars and a straw propelled rocket mission. Most elementary students in grades 1-5 have been introduced to the steps involved in an engineering design process and many have practiced them with their classroom teachers. Bonnie Brown, grade 2 teacher, shared a great website with the teachers. Take a look; we are sure you will agree that there are many activities to inspire creative thinking. <http://www.instructables.com/id/Project-Based-Engineering-for-Kids/>