



# Culver TEAMS Report

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



First grade studies countries



## Elementary Integrates Science, Technology, and Engineering

First grade is studying about countries with Ms. Clark's STEM class. Students learned about the language, money, flag, clothes, and traditional houses of several countries. The high school students cooked food for them from a variety of countries! They also built bird houses with Mr. Burbank's STEM class. They are also making a solar eclipse model to demonstrate during the STEM FEST.



Second graders are designing their own pinhole solar viewers to view the eclipse and to share at the STEM FEST. They are also learning about habitats and studying zoo animals. They will be creating their own zoo habitats.



Third graders are creating a student store for STEM FEST. They are working on advertising with posters, products and profit and loss. They are also designing water bottle labels to be used for the store... courtesy of our Earth 2 O partnership.

Fourth graders will be learning about infiltration and filtration. They will also be creating filters that "clean" water. For the STEM FEST they are studying how light affects their eyes.

Third grade prepares for STEM FEST



Fifth graders are studying about the solar system. They partnered with Nepris to talk to Daniel Adamo (Astrodynamics Consultant) to learn about solar eclipses. Students calculated distances between planets and looked at revolution. During the STEM FEST students will design and build scaled model houses that incorporate solar energy. They will begin by investigating different aspects of solar energy- reflection, absorption, concentration and ways to collect and store the sun's rays.



Fifth graders learning forms of renewable energy and building wind turbines



**STEM FEST SHOWCASE: May 25th**  
You're invited to view the Elementary  
Showcase from 2:20-2:50 PM

## Middle School TEAMS Projects

Underwater Fish Habitat



STEM classes are working on becoming experts in three different areas: pollinator (bee, butterfly, flower), fish, or raptor. These will also be the focus of many of the rooms at STEM FEST.

Aside from the student's being experts, Mrs. Habliston is a beekeeper, and is our expert for pollinators. Culver has a lot of students who live on farms or own farms in the area and they are also quite knowledgeable on this topic. Farmers rent bees from beekeepers, especially for carrot seed, in order to make their crops produce.

One of the projects students chose to create is an underwater fish habitat, with the help of Mrs. Bennett from the Oregon Park Dept. To test their project students are putting pieces of PVC pipe in jars every week and marking the day that they put them in and hoping to create somewhat of a time-lapse for what the fish habitat will look like after the fish and game put it under water.

**Middle School STEM classes took a field trip to the High Desert Museum to study wind and types of energy**



## High School TEAMS IN ACTION

Ms. Clark's and Mrs. Cox's STEM class went on a field trip to the KTVZ news room. Bob Shaw and Samantha O'Connor answered our students' questions about how a news broadcast is produced, and how to interview people for stories. News Team students had a chance to run the teleprompter and sit at the news desk. They also received some technical advice on how to film and record.

Mrs. Watson's class is "Communications and Media Relations". They are exploring different types of news media and the influence it has on outcomes of conflicts, criminal trials, and the world around us, as well as interpersonal communication. Students will also learn the flip side of the news - how to give a good interview and never say "no comment". They collaborate at times with the Mock Trial and News Team classes when their topics converge. They took a great field trip to the KTVZ news studios and will hear from a radio guest speaker, RL Garrigus, next week on expressing themselves clearly; both in the words they choose and how they say them. They attended Oregon Law Day at PSU with the Mock Trial class to examine issues of Freedom of Expression and social media rights and responsibilities.

In Mr. Woolledge's History class they are identifying areas of interest in history, investigate their area of interest, and create physical representations of their learning: making history. Students can create posters or diagrams, models, replicas, reproductions, or demonstrations of items, places, or events from world history. Whether creating a replica cannon from Blackbeard's pirate ship from PVC pipe, a model of an ancient Greek temple, or a reproduction of Guglielmo Marconi's radio, the student's jobs will involve two major activities. Some of the projects are: A chain mail hauberk, functional ornate stirrups for horse riding, a model castle, a pirate cannon made from pipe and wood, a miniature catapult, some cardboard miniature replicas of Polynesian and Asian swords, and a suit of World War I body armor. A dugout canoe is being completed off campus, documented with digital photography.

Mr. Dove's STEM class are designing and building solar cookers to bake potatoes. At the STEM FEST they will be presenting their Willow Creek Investigations.

The students in Mrs. Chapman's art class have been busy building Chia Pet plant holders.

Students in action at the KTVZ news studio



**STEM FEST**  
May 25th  
Middle School  
9:00-10:30AM  
High School  
11:00-12:30AM