



Culver TEAMS Report

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



Mrs. Rahi's first graders partnering with Middle Schoolers



Elementary Integrates Science, Technology, and Engineering

The Elementary School is integrating TEAMS into their daily lessons. Cross school teaching is a unique part of the Culver TEAMS projects.

First grade researched penguins with their buddy class. They studied the different attributes that are unique to the penguin. One important feature is their blubber. Blubber is a thick layer of fat, also called adipose tissue, directly under the skin of all marine mammals which covers their entire body. To help students understand the concept of blubber, Crisco was put into a zip lock bag and placed into very cold water. Students first stuck their hands in the extremely cold water and then placed their hands in the bag of Crisco, representing the blubber. They all agreed that the blubber maintains the body temperature and allows the penguin to survive in cold water. Another project was to figure out the dimensions of a turkey shelter using Unifix Cubes.

Mrs. Bautista's first graders Turkey Project



Third Grade is studying the solar system. They used their chrome books to research it's dimensions. They discovered the three celestial bodies that are involved in an eclipse, and created models of solar and lunar eclipses. The earth and moon were made to scale, which involved using fractions and measuring the circumference of their earth and moon models.



Fourth Grade had the task of engineering a replica of a dam using pop cans. The students learned how the cans acted like turbines, which are the part of dams used to generate electricity.



Hero Engine STEM Project.

Culver staff takes field trip to Cove Palisades to observe the ongoing work



Middle school students create maps to help staff navigate



Art Class Creates Skeletal Figurines for "Dia De Los Muertos"



High School TEAMS Held Box Car Derby Competition

2nd Annual Christmas Classic Pinewood Derby

This year the Second Annual Christmas Classic Pinewood Derby race was a huge success with lots of participation. We had two divisions consisting of our High School Physics and Engineering STEM class and an Open class for all ages. In both divisions we had 40 participants that competed in a double elimination bracket.

In the High School STEM division the students had to build and test prototypes of their cars gathering data on their changes and how it affected the speed of their cars down the track. They then took this information and built a final car for the race. There were many unique and clever designs that tested the parameters of this project. In the end the Champion of this division was Jorge Olivera. Second Place was Jerron Rhen and Third went to Alex Sanchez.

The Open division was just that, it was open to all students in the district. We had 40 entries in this division from Elementary to the High School. We held our races in the High School STEM Room during lunch and each day of racing was filled with excitement and intensity. Like the other division, this was a double elimination bracket. Our Elementary students gave our High Schoolers a run for their money. There were many creative and fast cars. In the end our champion in the open division was Jorge Olivera, Second place went to Garrett Goelze and Third was Mr. Dove. Yes, I got beat and my undefeated streak has come to an end.

Culver News Team TEAMS class has been putting out weekly video announcements. You can check them out on the Culver News Team YouTube channel at: <https://www.youtube.com/channel/UCFreEXJIL8fRXdga9tQz5EQ>



Derby Competition