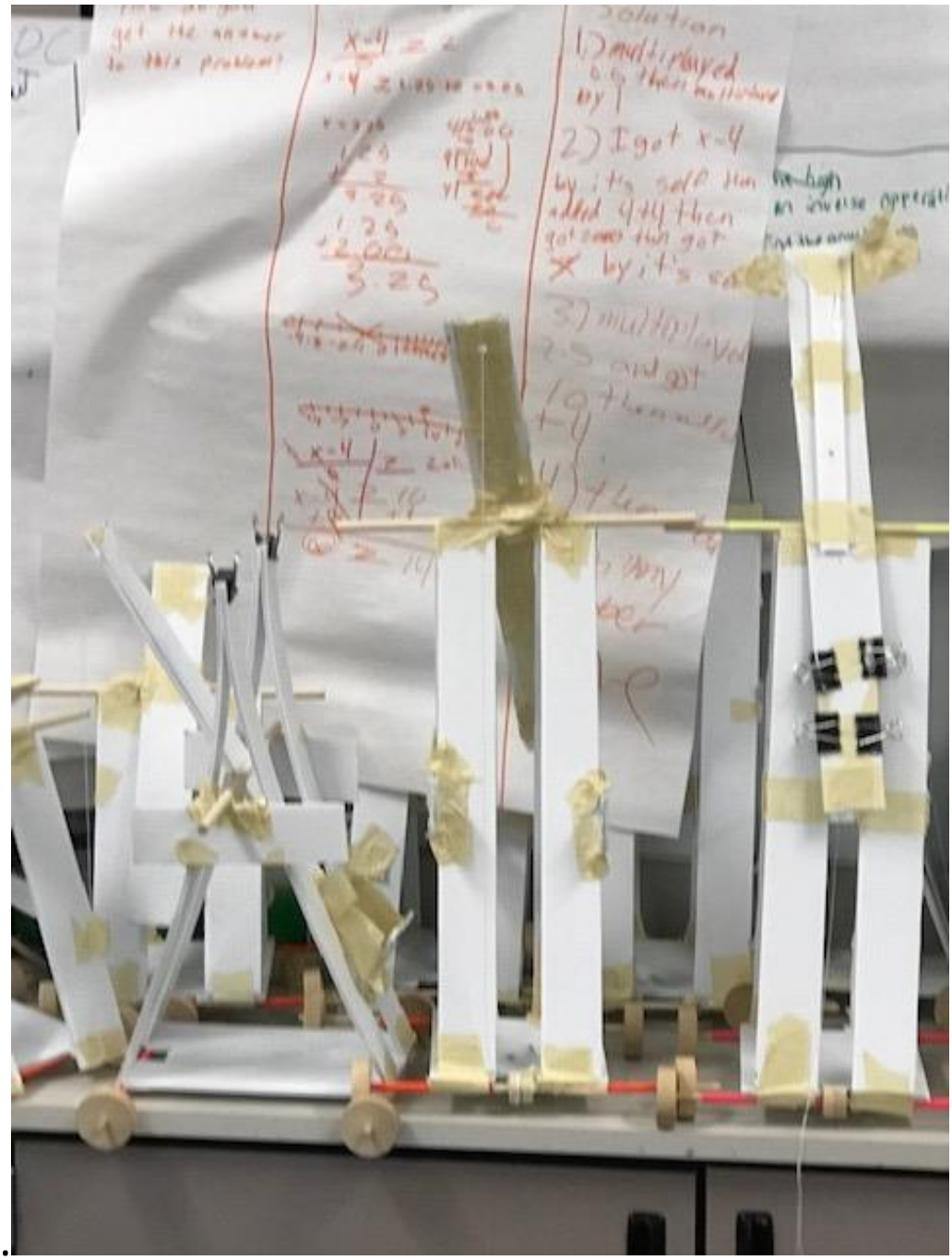
CEDARCREST STEM/SCIENCE NEWSLETTER FOR MARCH 2019: MORE THINGS…TO HOWL ABOUT…

OUR CEDARCREST STEM/SCIENCE STUDENTS HAVE BEEN EVEN BUSIER DOING ENGAGING, MINDS ON/HANDS ON LESSONS HERE AT CEDARCREST.

6th GRADE SCIENCE:

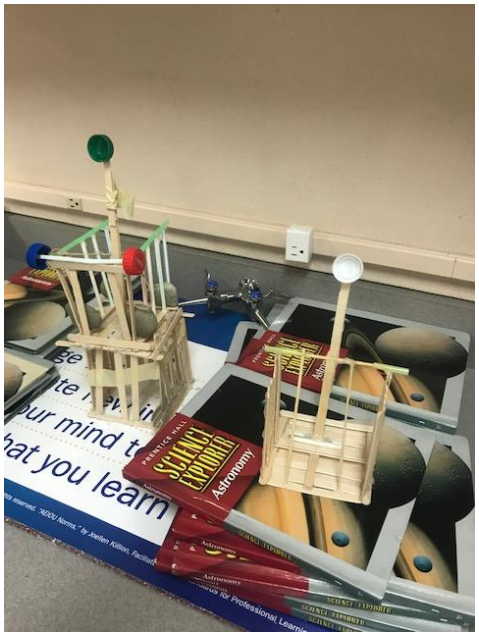
In Ms Kukull and MS Koznek's 6TH GRADE SCIENCE CLASSES…



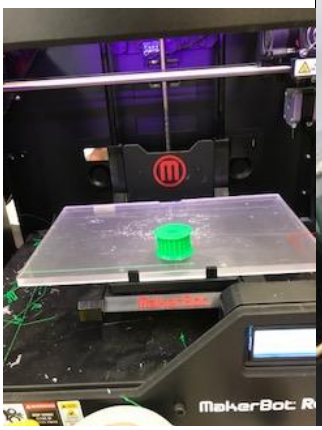
Students are learning about how making subtle changes to the design of a gravity car can affect the performance and efficiency of the car.

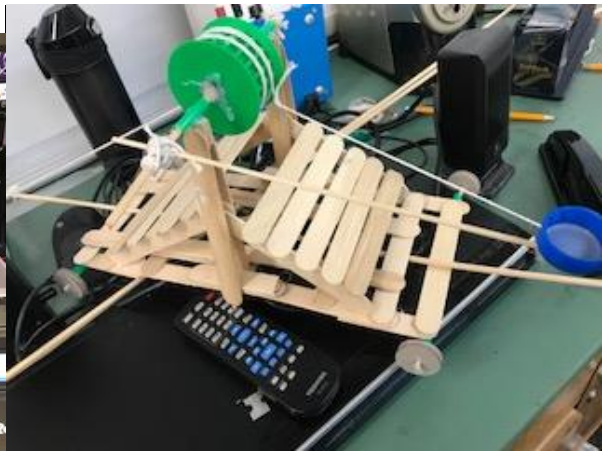
6TH GRADE 21ST Century Skills:

Mr. Shreeve AND Mr. Overland have continued tasking their 6th grade 21st Century students with the engineering challenge to reverse engineer a historically accurate scale model catapult.



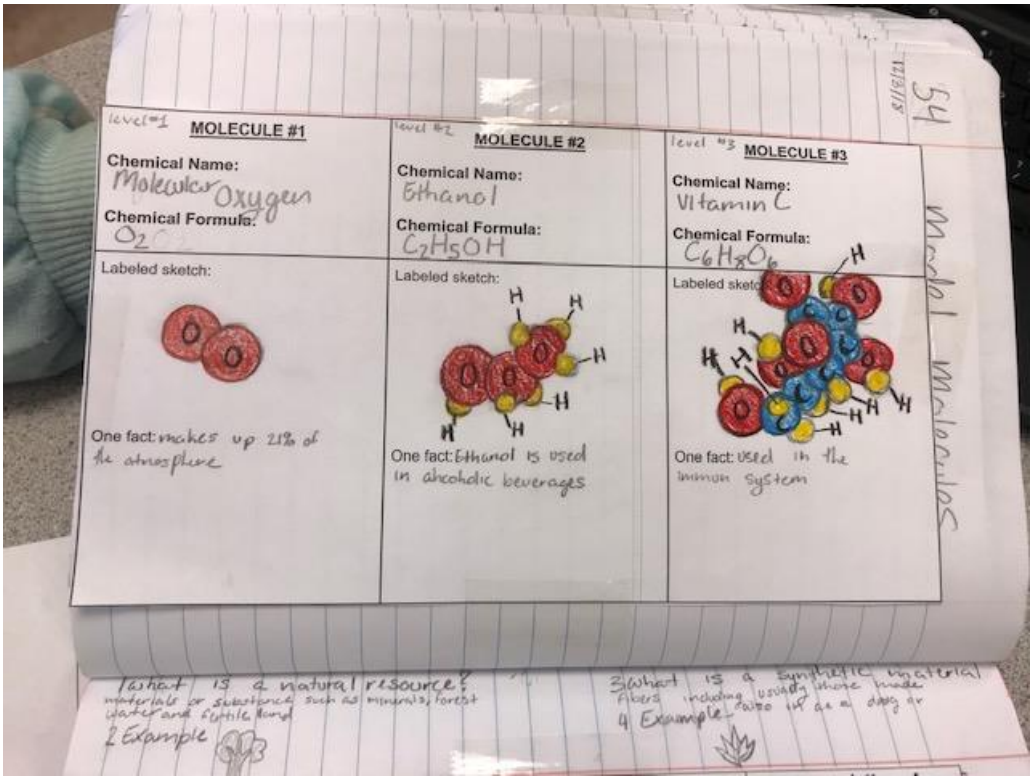
(The students and Mr. Shreeve even 3D printed a part for the Da Vinci Catapults—SUPER SCIENCE!)





7th GRADE SCIENCE: Ms. Dainard and Mrs. Delazarri's

Students are Exploring molecules and chemical reactions



Such as endothermic and exothermic reactions.

AND…THEY ARE ALSO LEARNING ABOUT WHAT CAUSES STORMS ANDWEATHER…

7TH AND 8TH GRADE How Things Work with MR. SHREEVE:

Students researched simple machines, energy, and Da Vinci's Self Propelled car in order to create a vehicle that can use one or more of the stored energy sources that were available to Da Vinci at that time: Elasticity, torsion, or gravity.

The students challenge was to create cars that use one or more of the energies that would

have been available for Da Vinci during the historical period of time he designed his self - propelled cart.

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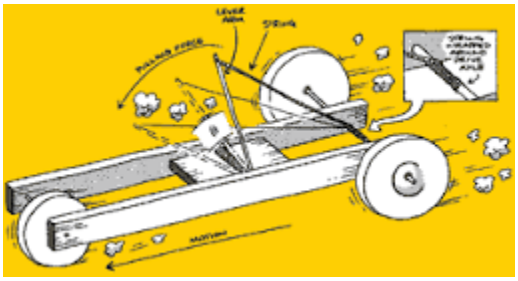
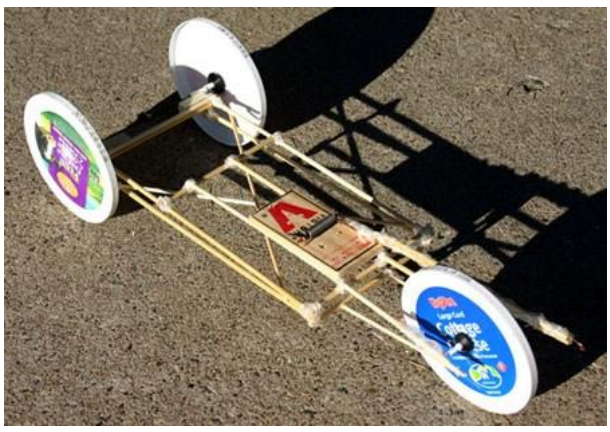
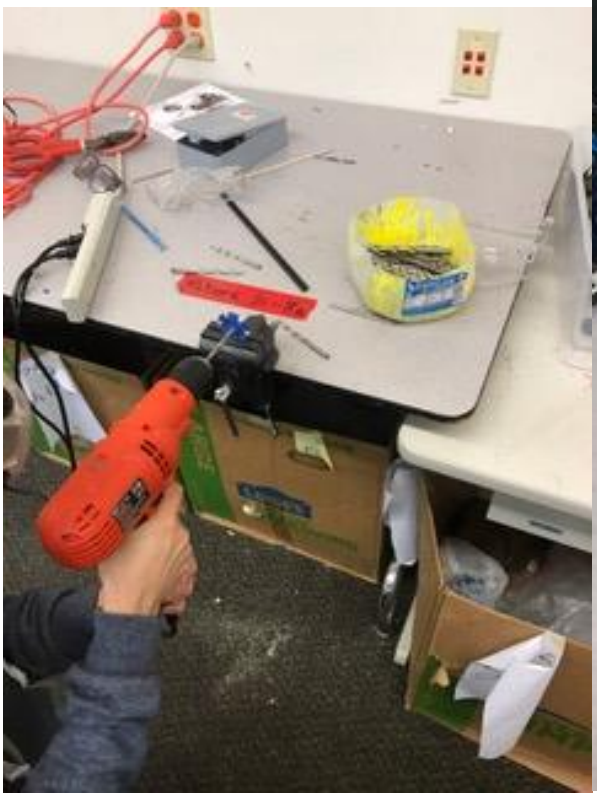
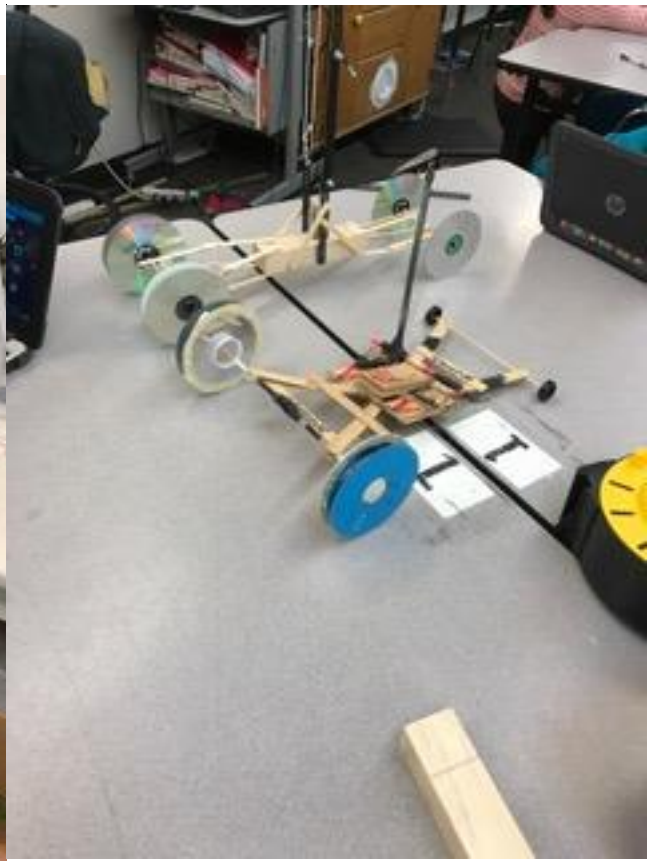
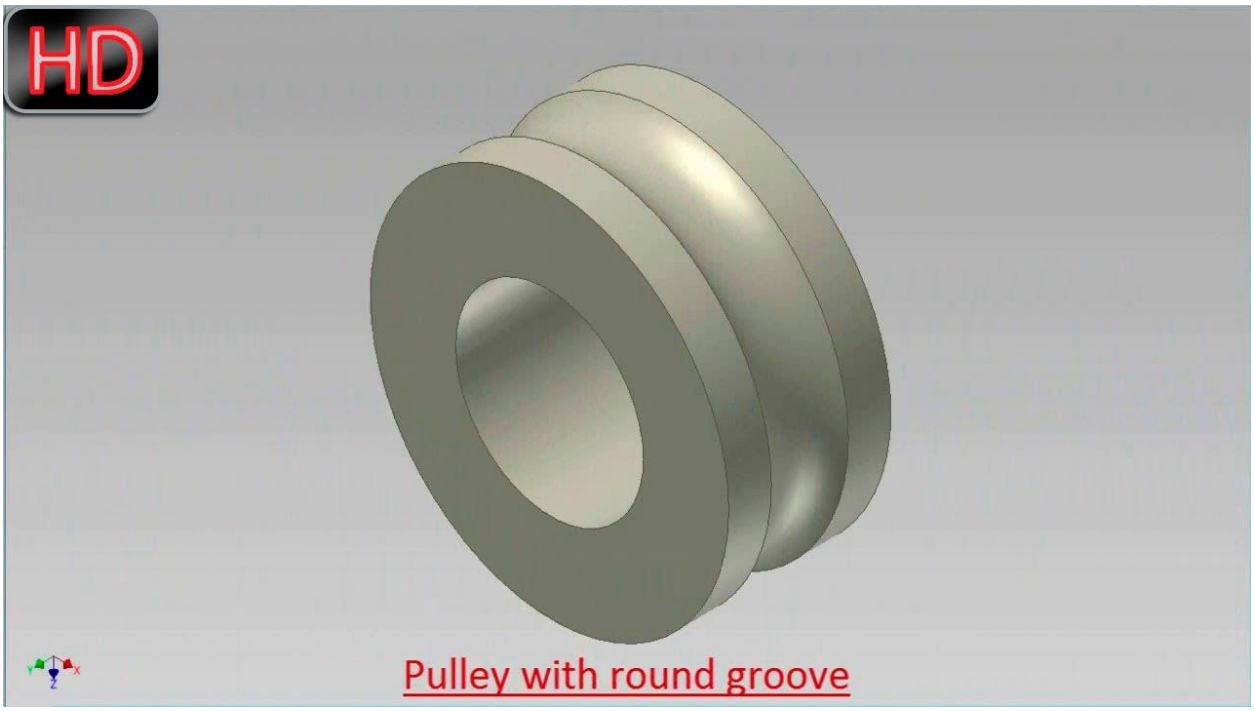




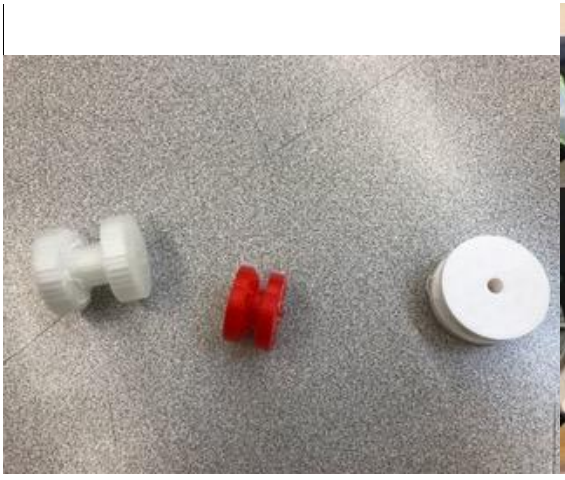




However, this is only part of the challenge. Students must also create a car that can travel more than 10 meters, and use two or more of the three types of energies in the above examples: torsion, gravity or elasticity**. They also were able to use 3D CAD software, computers and 3D printers for their project. The students decided that the best part to design was a simple machine: The Pulley. The pulley allows them to transfer energy from one place to another. They designed a pulley on CAD software,**



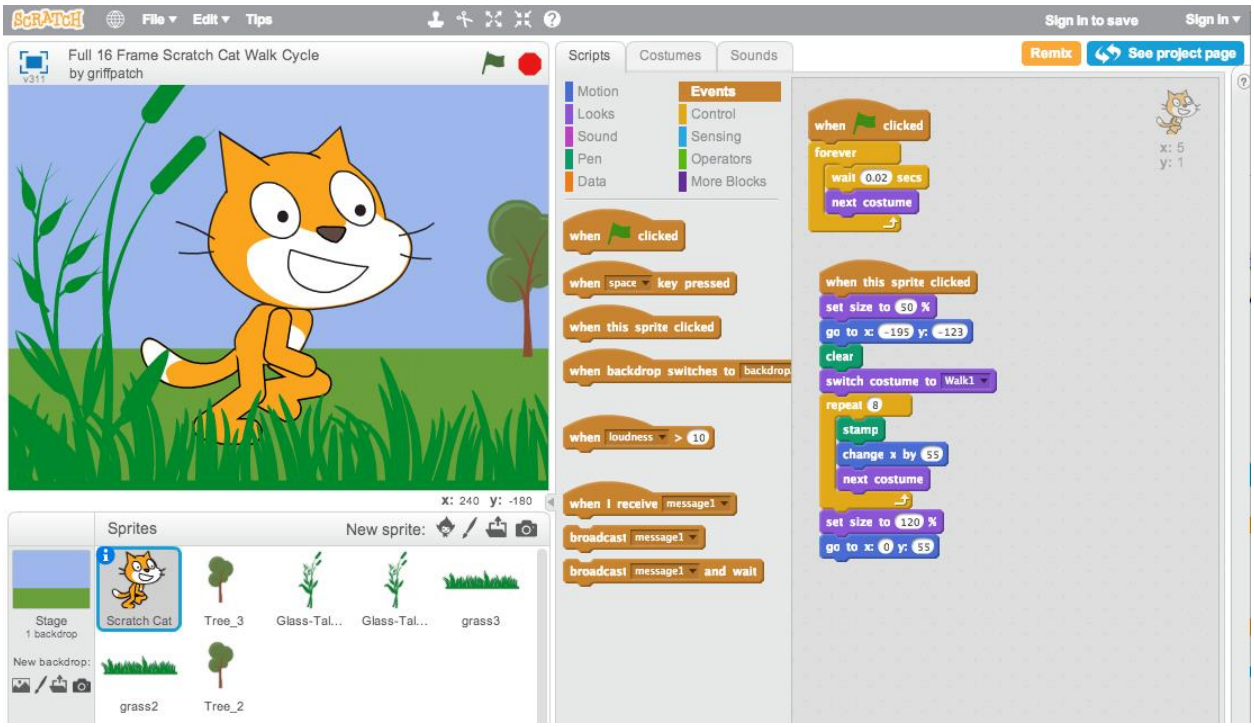
then 3D printed pulleys for their cars.



EXPLORING COMPUTER SCIENCE WITH MR. SHREEVE:

In EXPLORING COMPUTER SCIENCE…

Students this week finished the **ACTIVITY CARDS** on Programming through the Website "Scratch." **Now they are working in teams to create a Role Play Video game with multiple characters, levels and events. The Genres include Fantasy, Comedy, Science Fiction and Action/Adventure.**



SPECIAL EVENT: SALMON RELEASE WITH MR. SCHAUFLER,MR. SHREEVE, and Mrs. GARNICH:

Mr. Schaufler (8TH GRADE Science Teacher) has been doing his annual spring salmon release for more than 20 years here at Cedarcrest.

This year has been quite different…however…

Special Ed Teacher Mrs. Garnich approached mr. Schaufler AND Mr. Shreeve (CTE/STEM teacher)with an idea…a SALMON SLIDE…

WELL…MAYBE NOT THAT KIND…

MORE LIKE THIS…

So with a lot of work and a little ingenuity, the first salmon slide was born here at Cedarcrest.

Perhaps the most important part of this project was that this was the first time Special Needs students could have the same access to this activity.

Or…as Cedarcrest student Madelyn Mang worte:

“Cedarcrest developed a new way to release the salmon that worked out better for everyone, including the fry. The new way made it more fun for everyone and ensured everyone's safety.”

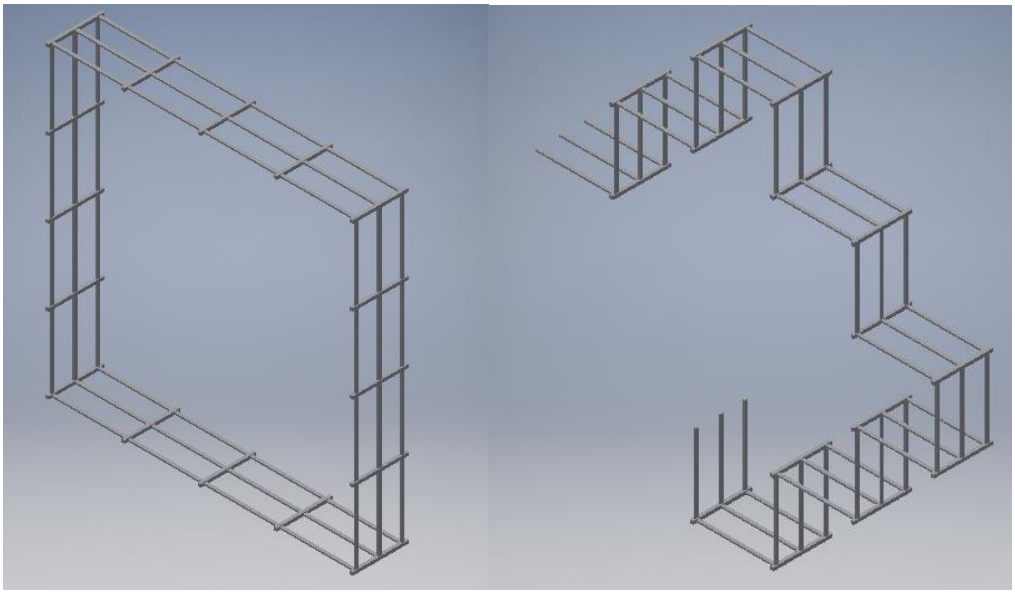

ECKO

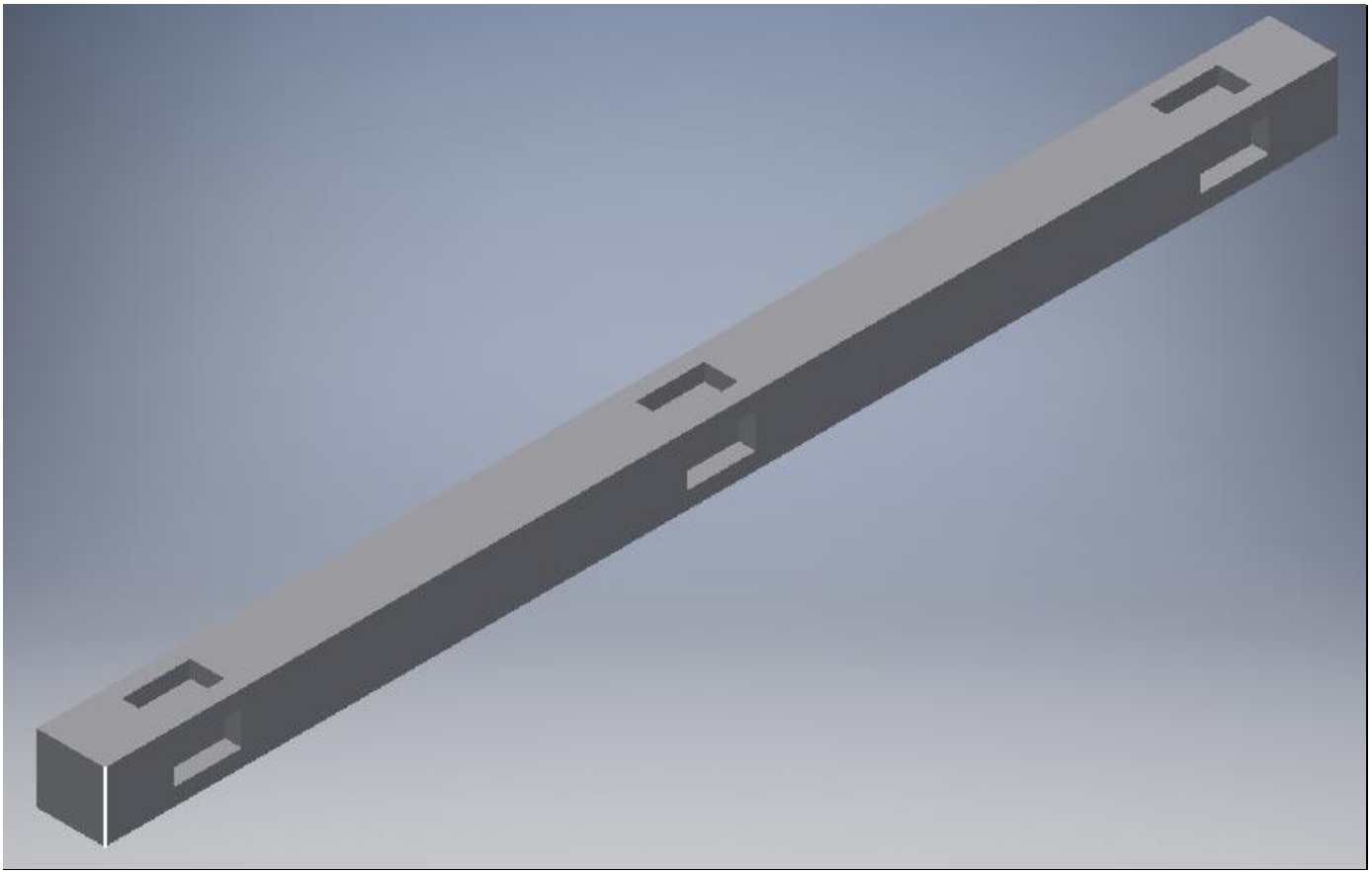
PLEASE ENJOY THE LINK TO A SHORT DEMONSTRATIONAL VIDEO OF THE SLIDE IN ACTION(ctrl/click on the address below to follow the link):

https://www.youtube.com/watch?v=m4ot3qg90Ew

MR. DESCHAINE'S STEM TECH (7TH GRADE):

In STEM Technology students are learning to Sketch drawings and turn the sketches into 3D models by extruding them using the **3D modeling software "Inventor." They are also learning how to dimension extrusions onto objects and how to constrain an object to the inside of a part**.





MRS. MACK'S STEM CLASSES(8TH  GRADE):

The students from STEM Foods and Nutrition and Fitness have been busy learning how to become heart surgeons WITH MRS. MACK…PLEASE ENJOY THE CHANNEL 13 NEWS ARTICLE ABOUT OUR FABULOUS CTE TEACHER MRS. MACK:

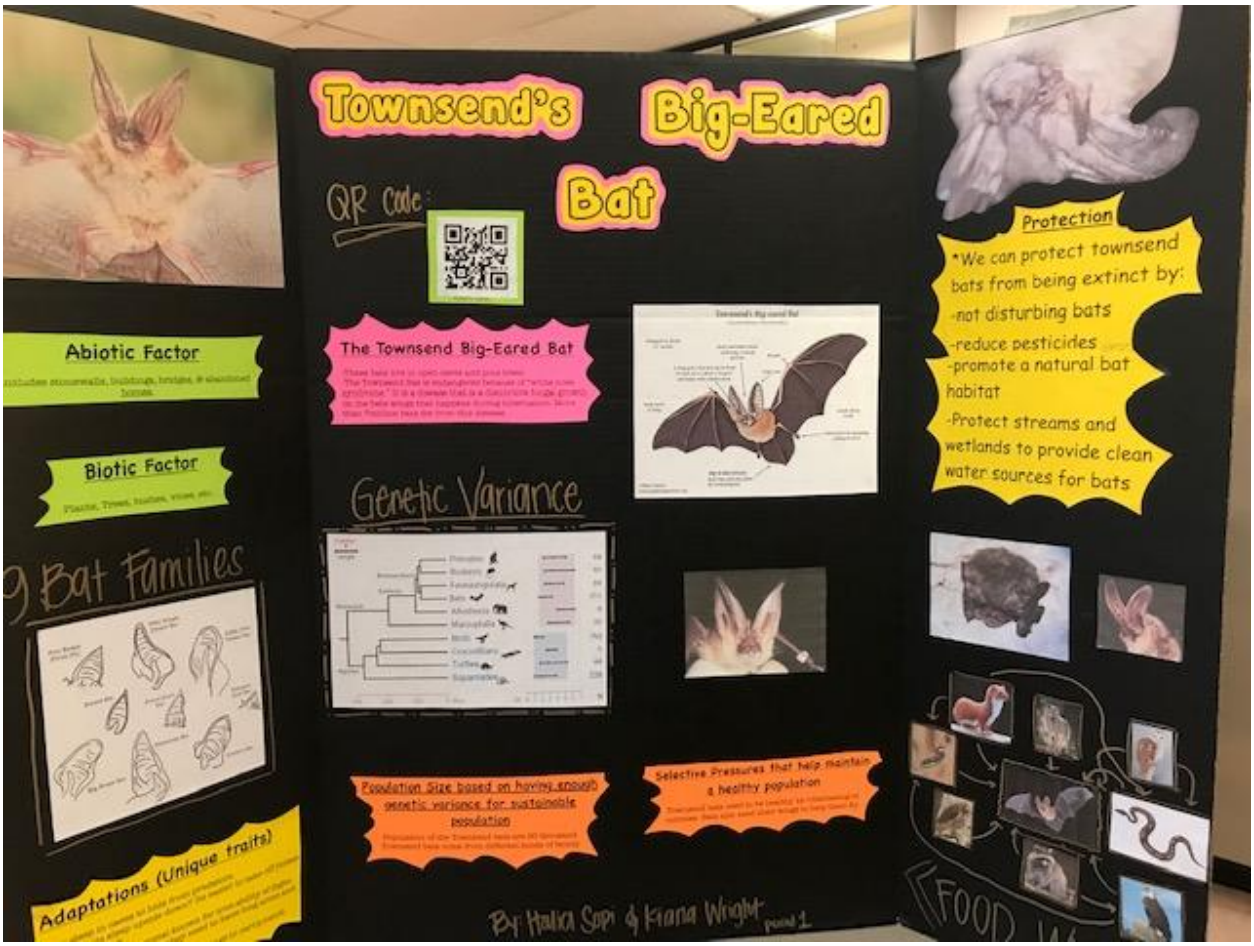
https://q13fox.com/2019/03/20/middle-school-students-future-doctors-learn-the-importance-of-heart-health/

CEDARCREST'S MAKER SPACE CLUB IS A HIT!!!…Run by Ms. Kukull and Mr. Shreeve:


Students are stoked about Maker Space. We have a great group of students that come every Tuesday. They have been busy creating all kinds of things with 3D pens, hot glue guns, even a Lego wall…We have added 3D printers and more supplies! The students have dismantled several old computers and they are now using the working computer that was made in the Maker Space last year.


8TH GRADE SCIENCE:

Mr. Schaufler and Mr. Overland



Students in Mr. Schaufler and Mr. overland's classes have been studying various animals and their habitats.

All of these activities were designed by the STEM/Science staff at Cedarcrest to encourage Engineering and Science concepts with fun, engaging activities that may help students throughout their careers.

On behalf of the Staff in the STEM/Science Department, **we are committed to making this the best year ever for your child here at Cedarcrest Middle School.**

Sincerely,

The STEM/Science Staff at Cedarcrest

Ms Kukull, MS Koznek. Ms. Dainard, Mrs Delazzari, Mr. Schaufler, Mr. Overland, Mr. Deschaine, Mrs. Mack, and Mr. Shreeve

6th Science, 7th Science, 8th Science, STEM Foods, STEM Tech, STEM Robotics, and 21st Century Foundations.