



**CEDARCREST STEM
NEWSLETTER FOR
SEPTEMBER/OCTOBER 2019:**

SOME THINGS...TO HOWL ABOUT...

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

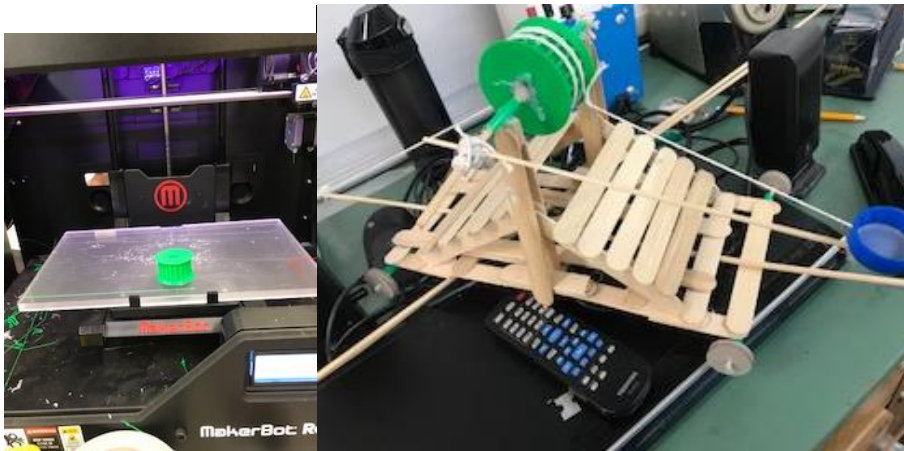
6TH GRADE 21ST Century Skills:

Mr. Shreeve has been tasking his 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, Petraria and Trebuchet Catapults—SUPER SCIENCE!)



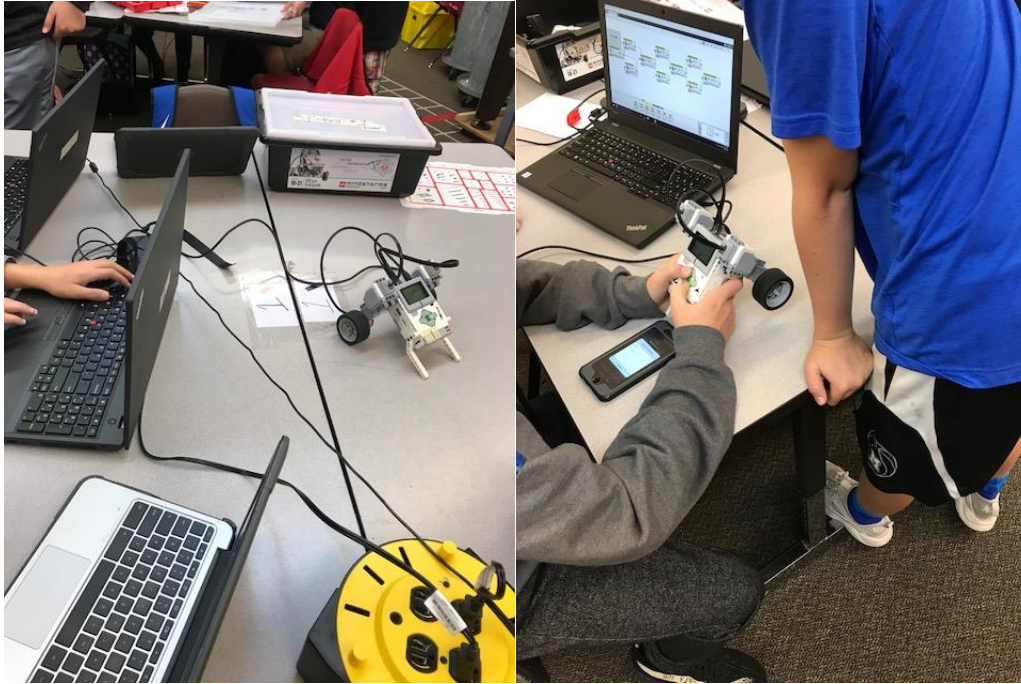
21st Century Students use an electronic journal called Seesaw, Google classroom and Canvas. This allows them to keep all of their work online and it can be easily accessed with their Chromebooks. Please have your son/daughter share their work with their Chromebooks.

7TH AND 8TH GRADE STEM ROBOTICS with MR. SHREEVE:

Students are working through the engineering process of researching, designing, building, programming, testing and optimizing EV3 LEGO MINDSTORMS ROBOTS.

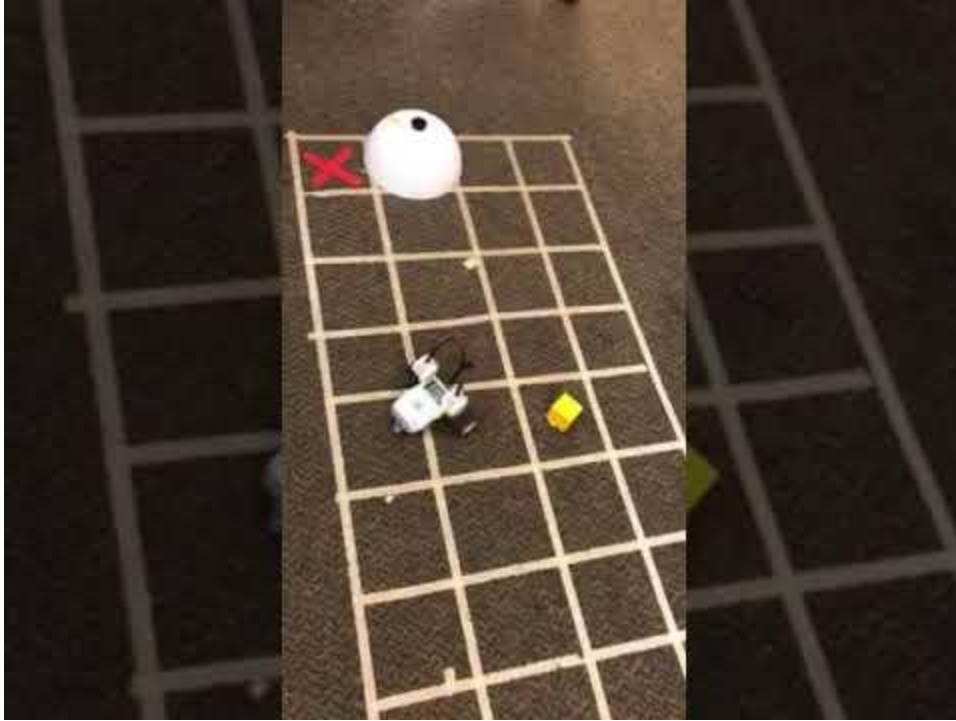


They incorporated various forms of technology including their smart phones (for blue tooth control of robots), Chrome Books (for research etc...) and CTE/STEM laptops (for programming the robots) to explore some of the capabilities of the EV3 Lego Mindstorms robots.

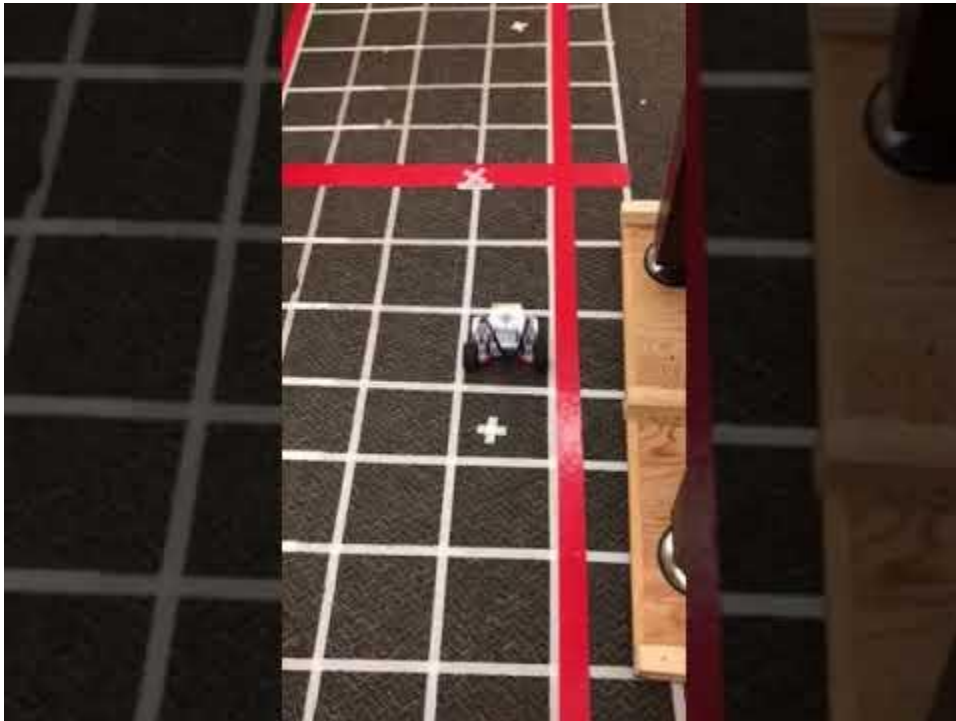


(please click on the links to see student videos)

Moon Shot Challenge:



Roomba Robot Challenge:



All of the assignments for **STEM ROBOTICS**, including their research, diagrams, notes, QR Codes, Scripts and even videos will end up on Seesaw. It is an electronic journal for the class. **Please have your son/daughter share their work with you in their electronic journal.**

LEGO LEAGUE

—AN AFTER SCHOOL ROBOTICS CLUB:



The club Tuesdays and Thursdays. It is RUN BY Ms. Kukull...With assistance by Tim Erickson who is a business and

Industry Advisor from Expedia, and STEM advisors Mr. Shreeve and Mr. Deschaine.

First Lego League gets students to think like Scientists and Engineers. Their challenge this year is

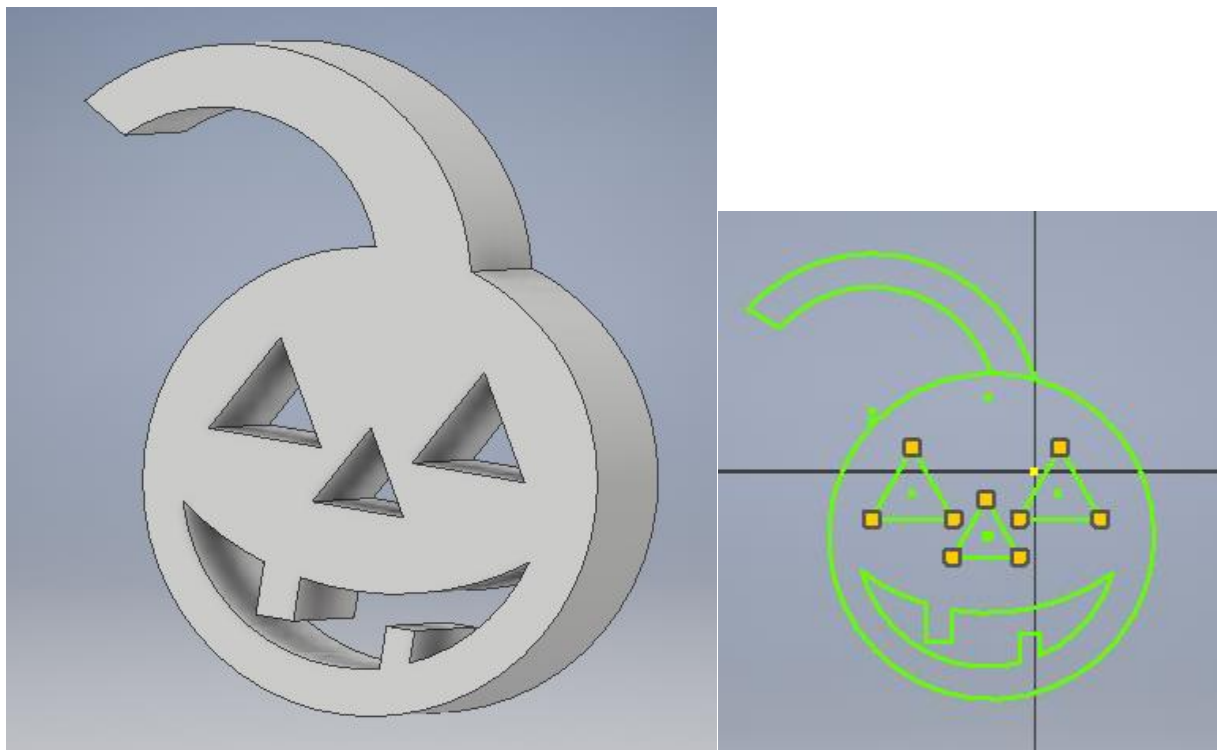


Attention, builders of tomorrow! Let's design and build better places to live and work for everyone. Combine your problem-solving skills and creativity in the 2019/2020 CITY SHAPERSM season, where you and your friends will shape a better future – together.

Students will create a research project to present at the competition, design, build and test a specific robot for the completion, and compete against several other school districts later this fall...IN CITY SHAPER!

MR. DESCHAINED'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."**



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



In Mrs. Mack's Nutrition and Fitness students have completed their first unit study. Students learning focused on the following questions.....

- 1. What are health and wellness?**
- 2. What are the three areas of the wellness triangle and how do we promote wellness in each area?**
- 3. How do our +/- lifestyle choices effect our overall wellness**
- 4. Define the terms anatomy (what our body is) and physiology (what our body does)**
- 4. What are the stages of the human life continuum?**
- 5. What are developmental characteristics of each stage of human development?**

Students are currently working on Systems of the Body.

All of these activities were designed by the STEM 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 Department, we are committed to making this the best year ever for your child here at Cedarcrest Middle School.

Sincerely,

The STEM Staff at Cedarcrest

Ms Kukull, Mr. Deschaine, Mrs. Mack, and Mr. Shreeve

STEM Foods, STEM Tech, STEM Robotics, and 21st Century Foundations.