



**CEDARCREST STEM/SCIENCE
NEWSLETTER 1/19/2018: STUDENTS
ARE STARTING THE NEW YEAR OFF
WITH ENGAGING STEM/SCIENCE AND
TECHNOLOGY PROJECTS AT
CEDARCREST**



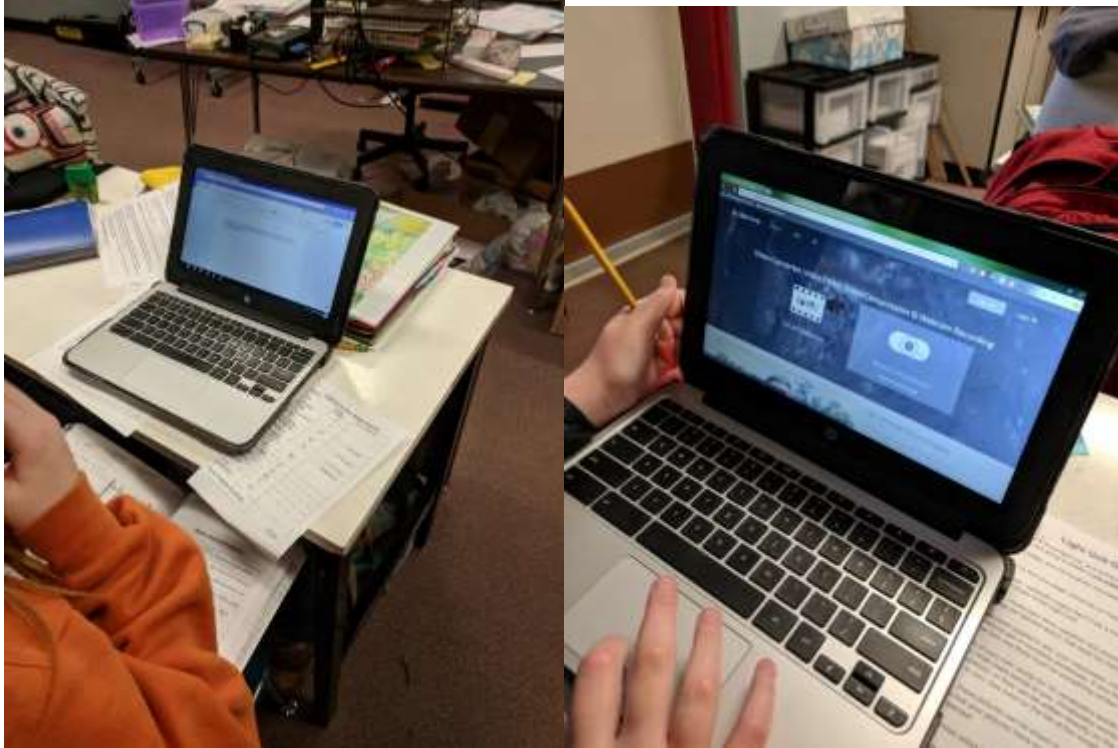
**OUR CEDARCREST STEM/SCIENCE STUDENTS HAVE
ONCE AGAIN ENGAGED IN MINDS ON/HANDS ON
LESSONS HERE AT **CEDARCREST.****

6th GRADE SCIENCE:

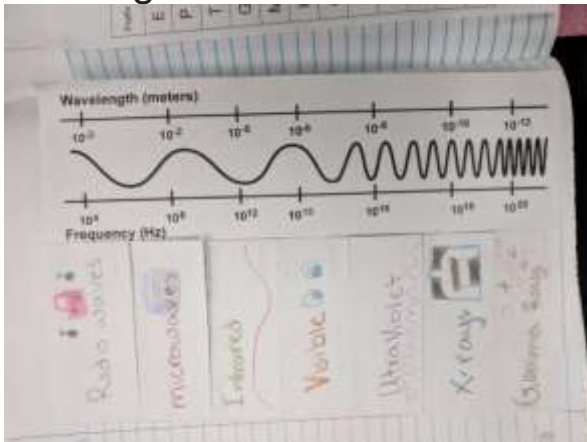
MS KUKULL AND MR. STODDARD'S

6th Grade Science:

Cedarcrest Students have been busy using
their **Chromebooks to research the
electromagnetic spectrum.**



This week students learned about how we use light to communicate by researching the different parts of the electromagnetic spectrum and their everyday uses **WITH THEIR Chromebooks**. Students are wrapping up their light unit by proving what they learned through a one-pager. The students will use video capture apps (Clip Champ and **ScreenCastify**) and video editing software (**Adobe Spark**) to explain and prove their learning.



The students **CONTINUE** to USE "Tinker CAD", a 3D design program made for kids. CAD stands for Computer Aided Design.



We recommend you asking your student if you can check out what they've created so far!

CEDARCREST'S MAKER SPACE CLUB CONTINNUES TO BE A HIT HERE AT CEDARCREST IN 2018!!!...Run by Ms. Kukull and Mr. Stoddard:

Students work with the Raspberry Pi's. They loaded "Retro Pi" to play some old school video games. The **Circuit machine is up and running with the new**

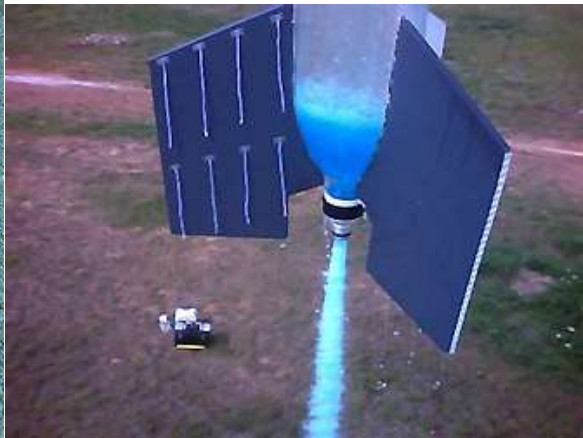
computer from **Scott Beebe** the **Marysville SD Chief Technology Officer**. AS always the Fuse Beads and 3D pens are a popular item!



Students are stoked about Maker Space. We have a great group of students that come every Monday and Wednesday, about 30!

6TH GRADE 21ST Century Skills:

Mr. Shreeve's 21st Century students been busy with the engineering process to **research (with Chromebooks)**, then design, build and test a **Soda Bottle Rocket** that can launch an egg astronaut and bring it back safely.

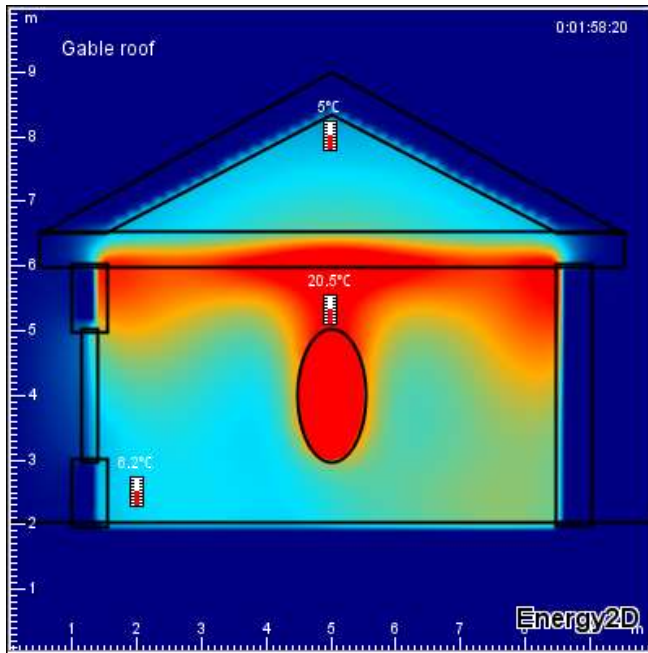


**CHECK OUT AN EXAMPLE OF A PREVIOUS YEARS CLASS
LAUNCHING THEIR ROCKET ON Mr. Shreeve's youtube channel**



Students are developing a deeper understanding of the engineering process through their participation in projects both in 6th grade science and 21st Century Skills HERE AT Cedarcrest.

7th GRADE SCIENCE: Ms. Dainard'S and Ms. Delazzari's Students are exploring the challenging world particles. ENERGY AND ENERGY TRANSFERR through simulation programs accessed by their Chromebooks.



Atoms & Molecules

- Neon
- Argon
- Oxygen
- Water

Phase Diagram

Pressure

45.4 atm

134 K

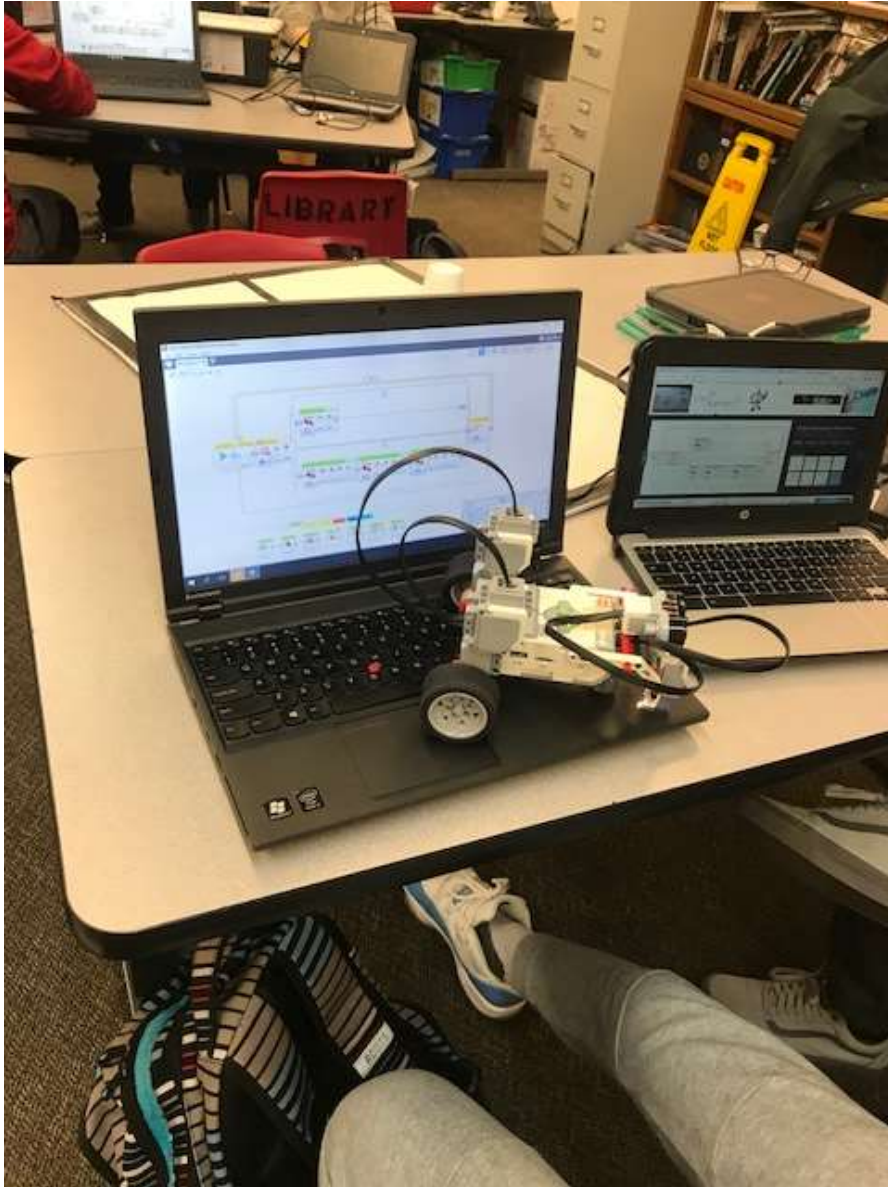
Heat

Cool

States of Matter: Basics

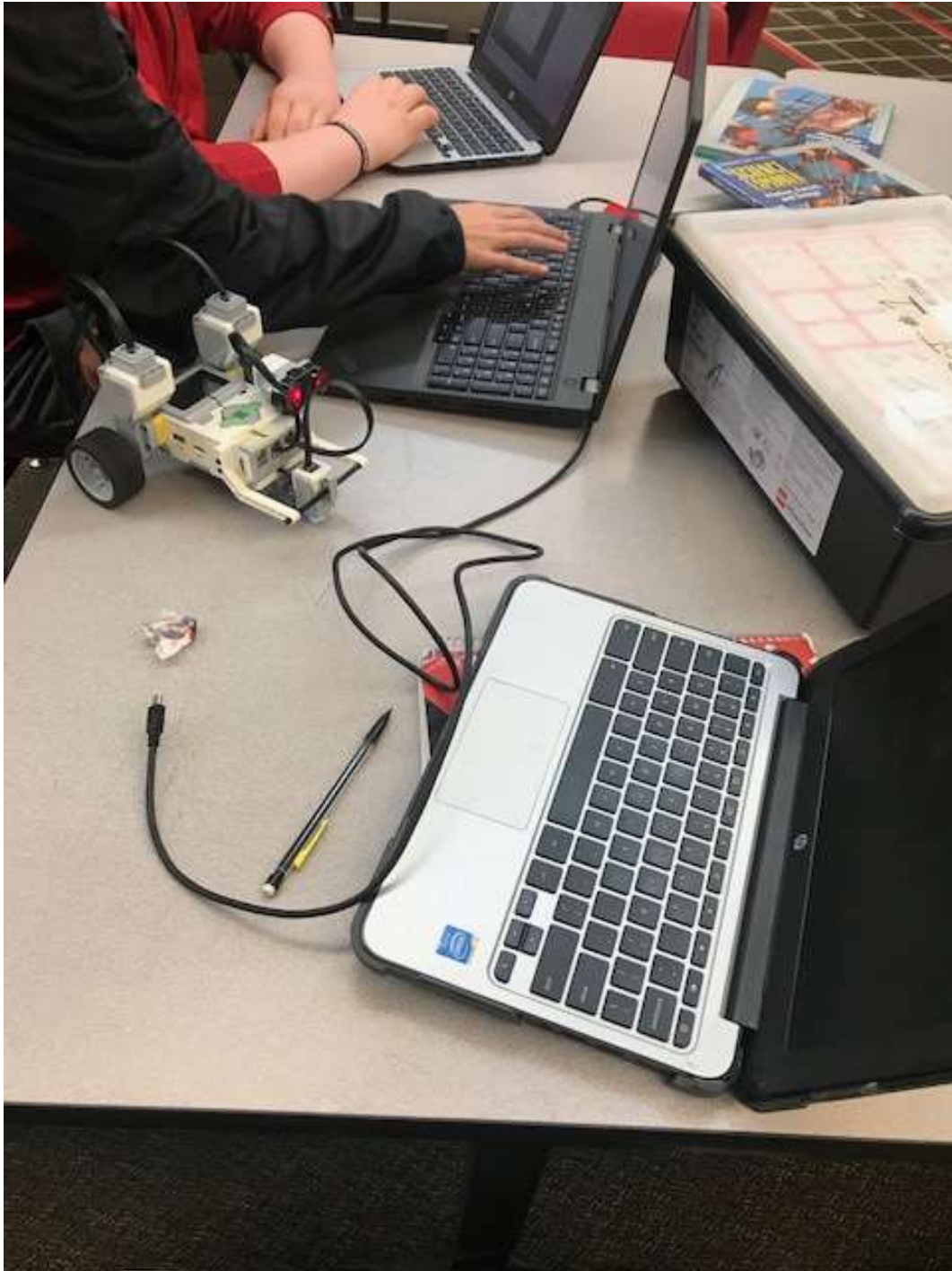
7TH AND 8TH GRADE STEM ROBOTICS
with MR. SHREEVE: STUDENTS FINISHED **the**
Light Sensor challenge(Toys in the
swimming pool). THE COMPLEXITY OF
PROGRAMMING IS RAMPED UP DUE TO THE ROBOT NEEDING
A SENSOR TO INTERACT WITH ITS ENVIRONMENT. In
addition, this sensor must be calibrated in order to follow a
black line. (click on the link below to see a practice run of
toys in the swimming pool)



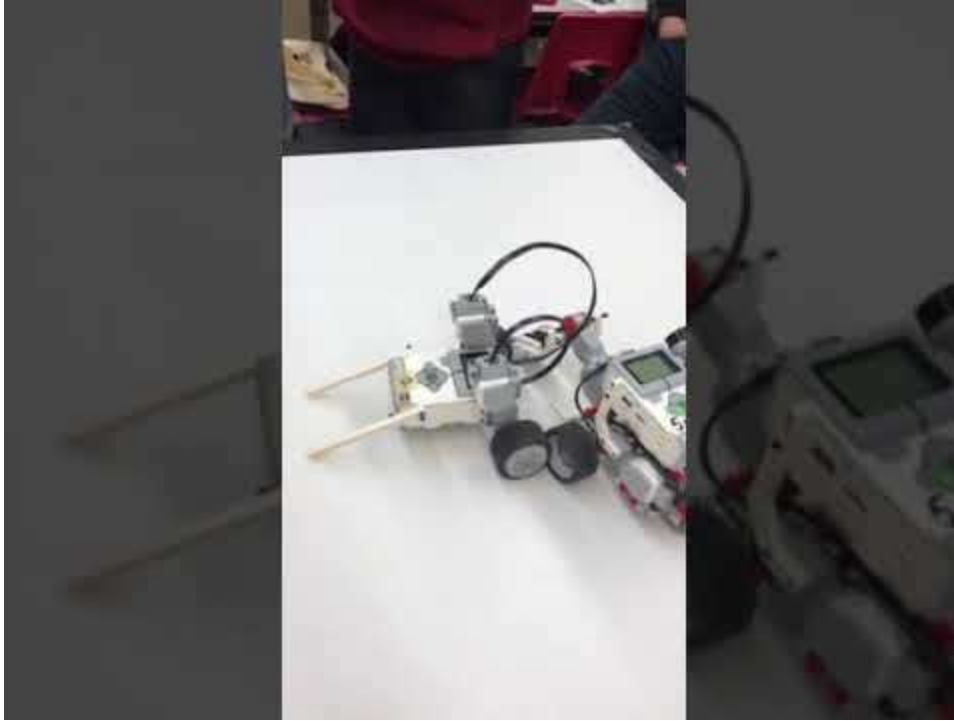


They are now working on their final project—BATTLEBOTS

Students are to design, build, test a robot that can stay in a ring and either push an opponent out of the ring or incapacitate them in some way. **They are using EV3 Robots, their chromebooks, Laptops and even their Smartphones** in order to manipulate the robots to operate both autonomously, and via blue tooth control through their phone.

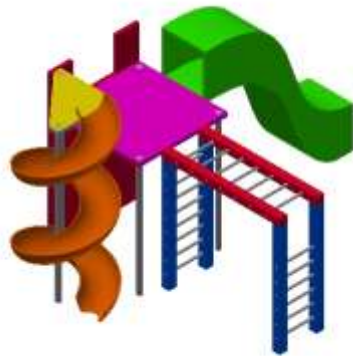


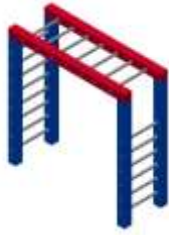
(Check out [THE LINK BELOW](#) of practice runs of BATTLEBOTS by students)



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

In STEM Technology students are using 3D modeling software in order to design a 3 dimensional playground. A very cool and very challenging use of technology.





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



In Mrs. Mack's Nutrition and Fitness Students are researching about the opiod epidemic crisis with their Chromebooks. Virtually All work done in STEM Nutrition is done online INCLUDING ASSIGNMENTS AND TESTS, using their Chromebooks.

IN MRS MACK'S STEM FOOD, STUDENTS HAVE BEEN COOKING, COOKING AND MORE COOKING...YUM...

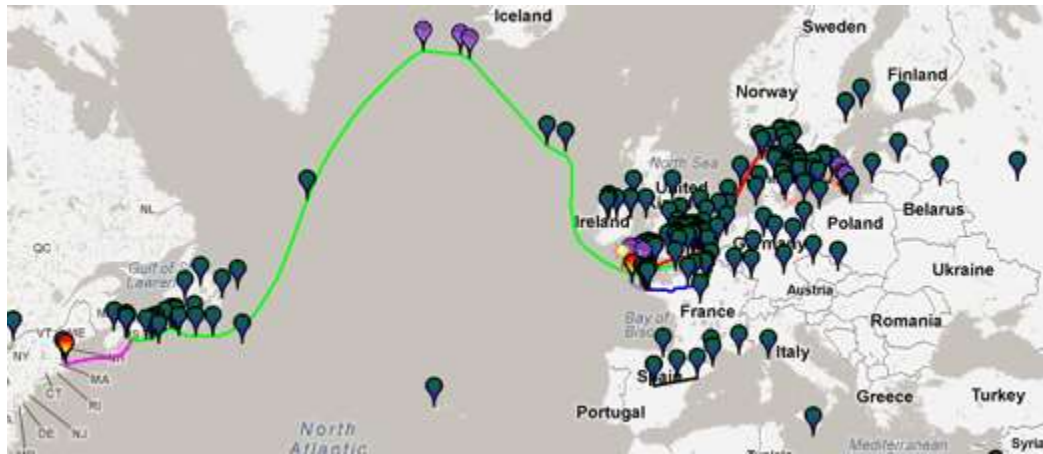


8TH GRADE SCIENCE:

Mr. Schaufler and Mr. Overland--

This week students worked on the culminating project of this unit, creating a brochure about Evolution. **WHAT IS FANTASTIC ABOUT THIS PROJECT IS IT'S DONE ENTIRELY**

ELECTRONICALLY USING THEIR CHROMEBOOKS AND GOOGLE MAPS. They had 2 days in class to work on it, and it is due first thing Monday! I will be grading their Google Maps this weekend. Thursday of next week is the last day any work, or extra credit, can be done for the first semester. Next week we will embark on a journey to learn how cells function.



SUPER SCIENCE!

VIRTUALLY NONE OF THIS student work WOULD BE POSSIBLE WITHOUT THE SUPPORT OF **THE MARYSVILLE TECHNOLOGY DEPARTMENT, CAREER TECHNICAL EDUCATION DEPARTMENT, AND THE MARYSVILLE COMMUNITY THROUGH THEIR SUPPORT OF TECHNOLOGY IN OUR SCHOOLS.**



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

Mr. Stoddard, Ms Kukull, 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, 21st Century Foundations, and Exploring Computer Science.