



**CEDARCREST STEM/SCIENCE
NEWSLETTER 11/21: “GOBBLING”
THROUGH NOVEMBER WITH
ENGAGING STEM/SCIENCE PROJECTS AT
CEDARCREST**



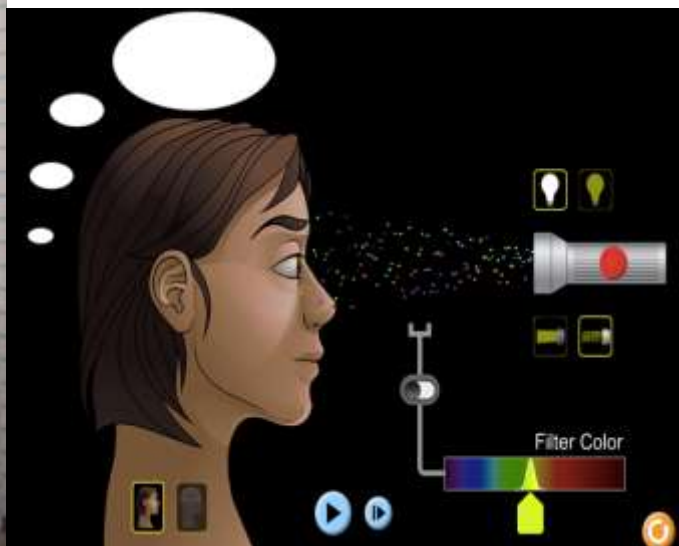
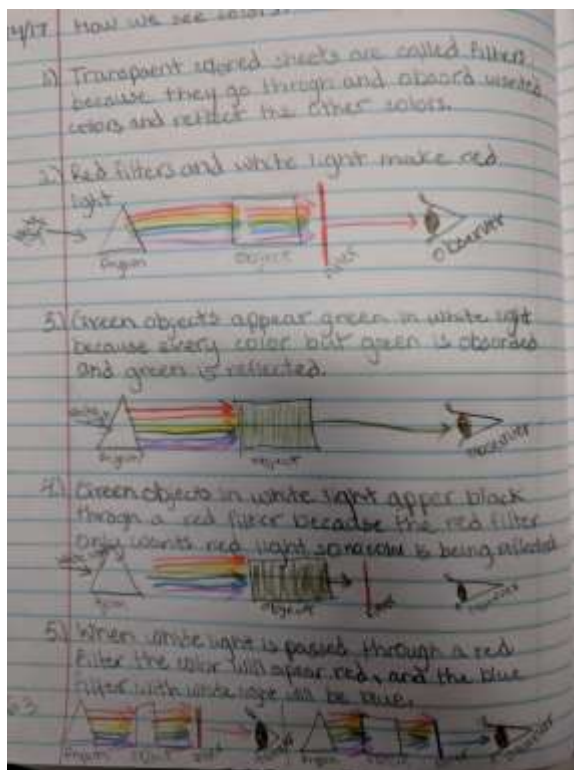
OUR CEDARCREST STEM/SCIENCE STUDENTS HAVE ONCE AGAIN ENGAGED IN MINDS ON/HANDS ON LESSONS HERE AT CEDARCREST.

6th GRADE SCIENCE:

MS KUKULL AND MR. STODDARD'S

This week in 6th grade science the students are further exploring waves by understanding light waves. Students used spectroscopes to diffract light into the spectrum of colors of different light sources. They learned that white light is made of all the colors

of the rainbow, different light sources have different spectrums and that you can combine the primary colors of light to produce white light! They applied their understanding of waves, that they built through studying sound waves, to understanding color and light waves. **The students also learned why we see objects as certain colors by the light that is either reflected or absorbed by the object.**



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



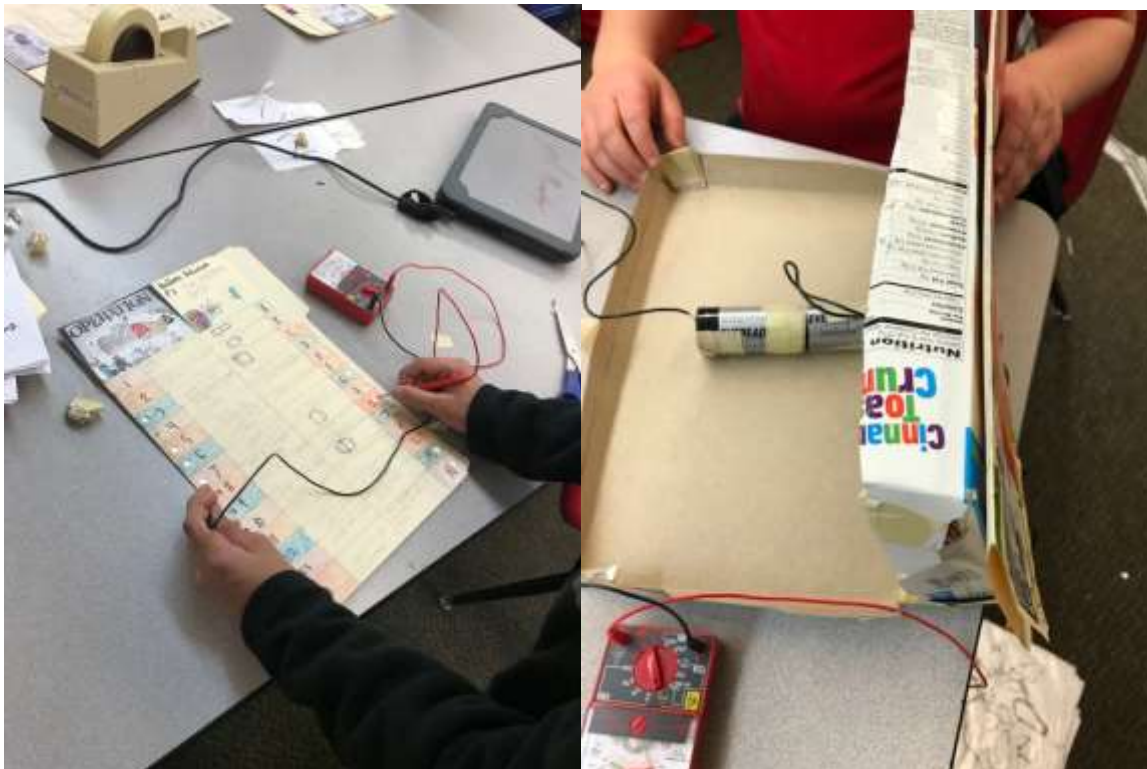
Students are stoked about Maker Space. We have a great group of students that come every Monday and Wednesday, about 30! They have been busy creating all kinds of things. The 3D pens, hot glue guns, Makey Makey, Sphero and fuse beads have been a popular go to for their creations. We're patiently awaiting the arrival of our 3D printers and more supplies! The students have dismantled several old computers and now they are getting the opportunity to put together a working computer to be used in the Maker Space.

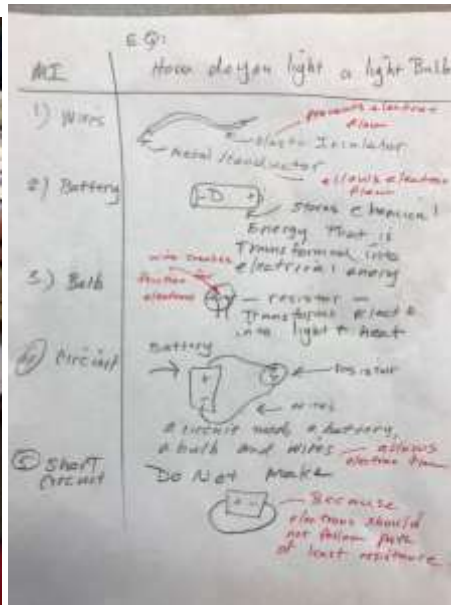


Thank you to **Scott Beebe**, the **Marysville SD Chief Technology Officer** for supporting our **CMS students** by **purchasing all the computer components**. If you have any special skill sets and would like to help out in the **Maker Space**, we meet from **2:50-4:15 every Monday and Thursday**. We would also love donations of **fabric and thread** to start **sewing!**

6TH GRADE 21ST Century Skills:

Mr. Shreeve's 21st Century students have been busy creating their "Operation Games." Many have already wired and electrified the games and will be taking them home for Thanksgiving weekend.





Students in 21st Century also use AVID literacy strategies such as Cornell Notes in order to help create a conceptual understanding of concepts such as Electricity.



Students are developing a deeper understanding of Current Electricity, waves and energy thanks to their work both in Science and 21st Century

Again, 21st Century Students use an electronic journal called Seesaw. This allows them to keep all of their work online and it can be easily accessed with their Chrome books. **Please have your son/daughter share their work with you in their electronic journal.**



7th GRADE SCIENCE: Ms. Dainard'S and Ms. Delazzari's Students are exploring the challenging world of the Periodic Table. This is a precursor for students to take chemistry in High School.



In addition, The 7th Grade students in Both Ms Dainard's and Ms Delazzari's classes were engaged in an

engineering project where they were tasked to “Create a GAK BALL that can bounce at least 50% of a manufactured SUPERBALL’S bounce height. “





The purpose of activities such as this is to encourage collaborative learning through fun Science oriented projects that are hands on/minds on.

7TH AND 8TH GRADE STEM ROBOTICS

with MR. SHREEVE: This week students are working through **MAZE Challenge.** THE COMPLEXITY OF



PROGRAMMING IS RAMPED UP DUE TO THE ROBOT NEEDING A SENSOR TO INTERACT WITH ITS ENVIRONMENT.



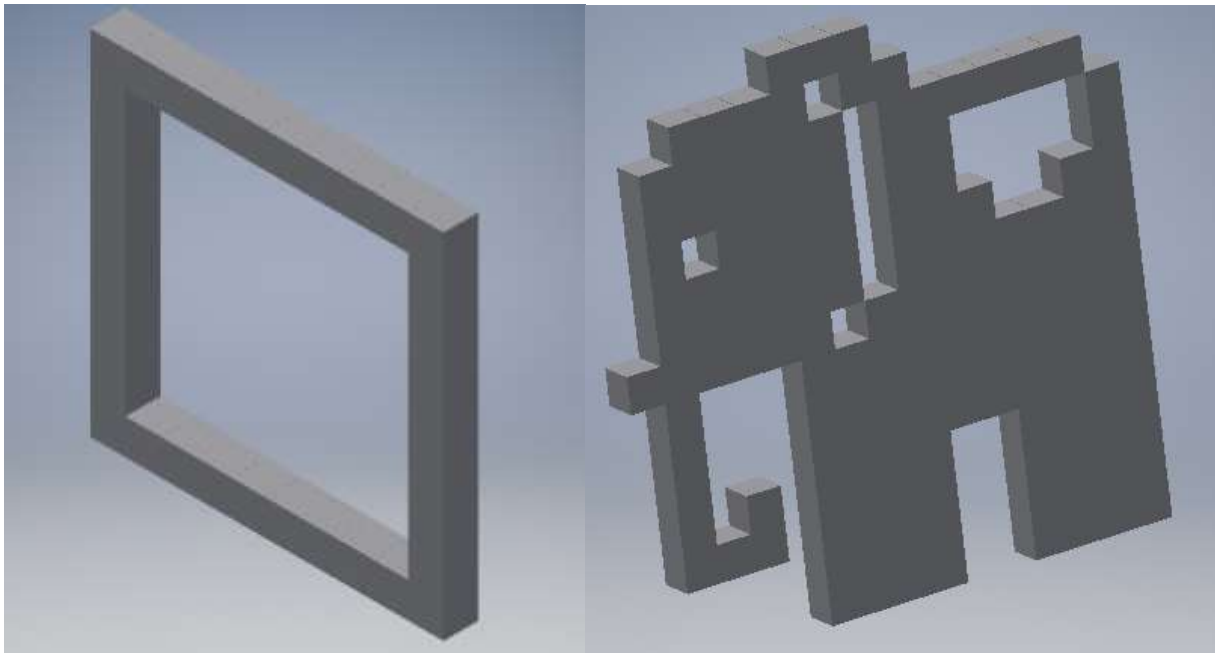
(Check out/control click the Hyperlink above to see the robots in action on Mr. Shreeve's You Tube channel)

Just a reminder...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.**



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

In STEM Technology students expanding their knowledge of Sketching drawings and turning the sketches into 3D models by extruding them using the **3D modeling software "Inventor**



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



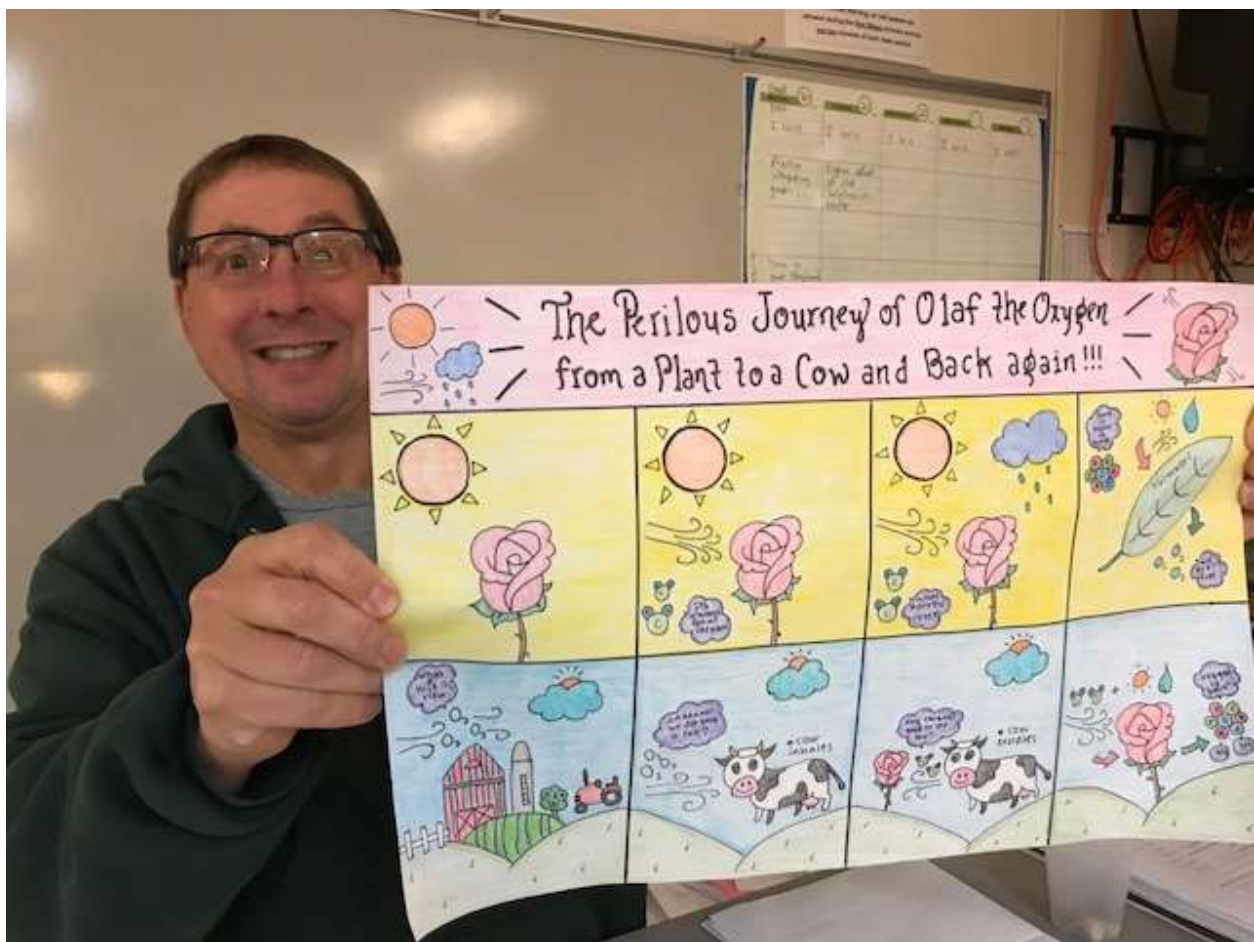
In Mrs. Mack's Nutrition and Fitness students are continuing their investigation of Systems of the Body. Some of the questions they will be working on may include:

- 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?**
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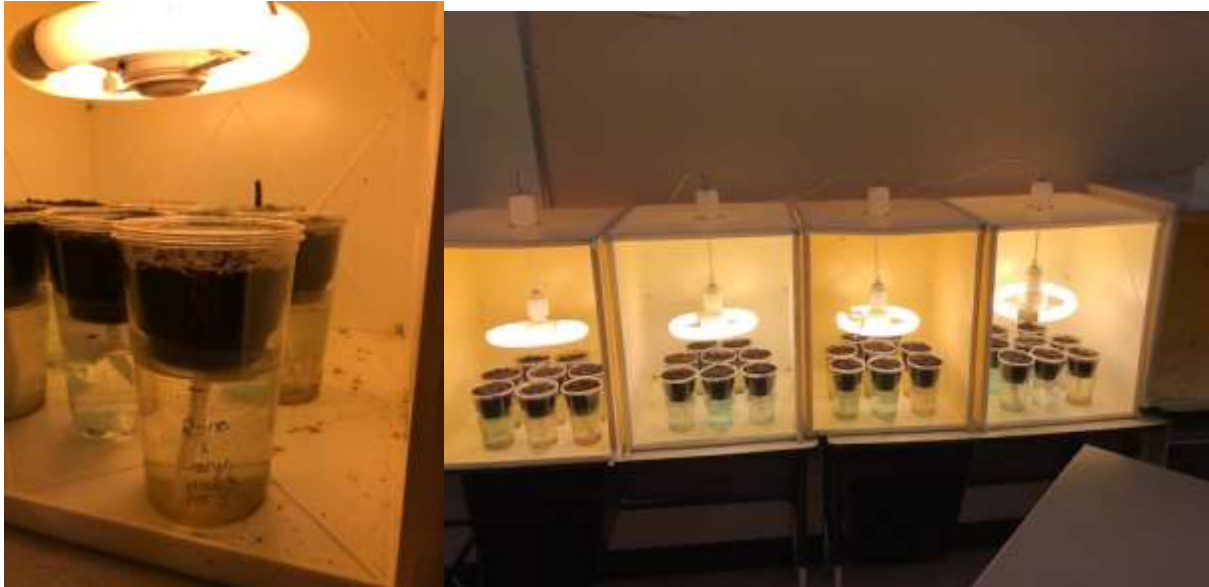
8TH GRADE SCIENCE:

Mr. Schaufler and Mr. Overland--

This week students re-visited atoms and molecules and how they work together by exploring the practical application of their relationships in Photosynthesis and Cellular Respiration. Students have been making a storyboard about “The Perilous Journey of ___ from a plant to a cow and back again. The blank being either Carbon, Oxygen, or Hydrogen.



Students will also continue their observations of their Wisconsin Fast Plants on this short Thanksgiving week...



SUPER SCIENCE!

All of the activities described in this newsletter 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

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, and 21st Century Foundations.