

# Oswayo Valley Science Department News and Updates

## Second Quarter 2018-19

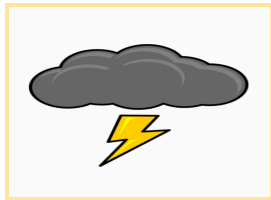
Mr. Bruce Kemp, Mr. Craig Moshier,  
Mrs. Regina Tkacik

## What's Happening in the OV Science Department!!!!

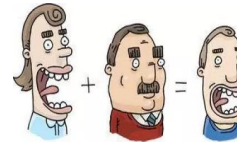
- PSSA Prep
- Winterfest Outdoor Cooking
- Lifting Mrs. Tkacik

## Middle School

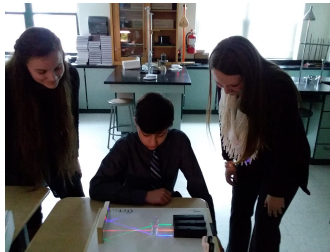
**Grade 6** - Students in Mr. Moshier and Mrs. Tkacik's classes have spent a lot of time looking at Earth's features and their cause. Now we are taking a look at the major features of weather and influences of climate.



**Grade 7** - Genetics and Heredity have been the topic for Mrs. Tkacik's seventh graders. They have reviewed the lives of several pioneers, looked at how traits are expressed and used Punnett squares to determine the probability of a trait being passed on.



**Grade 8** - Eighth-grade students explored the various forms of energy and how their acquisition and usage impact our society and environment. Then we learned about sound & light and are now exploring thermal energy and heat. Don't be afraid to ask them, "Why is the sky blue?" As we inch closer to the Science PSSA we will continue to review and expand our scientific knowledge.

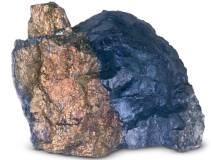


## HS Envirothon

After learning all about Pennsylvania's wild creatures we have spent some time looking at this year's Current Issue, "Agriculture and the Environment: Knowledge and Technology to Feed the World." Activities have included learning about PA's animal (tracks, scat, characteristics), bird calls, and how to increase crop production by changing management strategies, and researching/debating the use of Genetically Modified Organisms to help feed our growing population.

## Elementary School

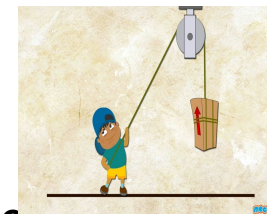
**Grade 3** - The 3rd Grade is ready to begin their second module. It is *Rocks and Minerals*. Within this module, students investigate the properties and uses of rocks and minerals. Like real geologists, they attempt to identify the names, origins, and structures of their specimens. Students also research and discuss how humans have used rocks and minerals in industry, medicine, and art both in the past and today.



**Grade 4** - Students in 4th Grade are beginning their third module, *Human Body*. They begin by trying to count their bones. Owl pellets are introduced as a way to compare anatomies; this is always a favorite among our students! Finally, the students are introduced to each major body system.



**Grade 5** - *Levers and Pulleys* introduce the 5th Graders to simple machines. These four investigations involve students in fundamental concepts of machines. One of the first things they are



**"The Science of today is the Technology of tomorrow."**

**Edward Teller**

