



Be E3 Smart Energy Efficient Unit Portfolio

Alison Frilling – Fourth Grade Teacher – Fort Loramie Elementary School

ENERGY

- Students paired up to research a source of energy and then introduced it to their classmates.
- We were visited by Jodi Borger from Pioneer Electric who brought the Energy Bike so students could continue their learning of energy transfer.
- This also tied in to lesson 2!



ENERGY ROBOTS



MY ENERGY ROBOT Name Avery IC

Draw your robot inside the box. Make this robot your best work. It should be colorful and detailed. Write a paragraph describing your robot. Explain the specific features of your robot including the three forms of energy your robot produces. Use correct capitalization, punctuation, and sentence structure.

My robot's name is Shizo. I call her Zo for a nickname. Zo is able to do a lot of things! She can scrub (with her boots), she hums, she cooks, she stores food in her electrical refrigerator, and uses flashlights to see where she is going at night. Shizo uses thermal energy by cooking on her skillet head. She also uses sound energy by humming. Zo can scrub my floor when I do not want to so she is using mechanical energy. While scrubbing the floor at night Zo needs to see so she uses

light energy (flashlights) Zo serves me the BEST cold food, she does that by storing my food in her refrigerator which is powered by electrical energy. YUM!! The food she stores FOR ME in the refrigerator is chemical energy.

Avery B.

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- We took all of our energy knowledge and designed an energy robot. Students were to create a robot that used AT LEAST 3 forms of energy learned during Lesson One. The drew a picture, colored it, and wrote a descriptive paragraph explaining the energy forms utilized.

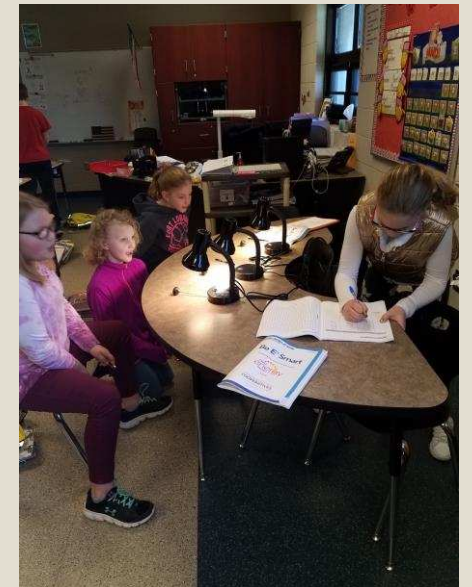
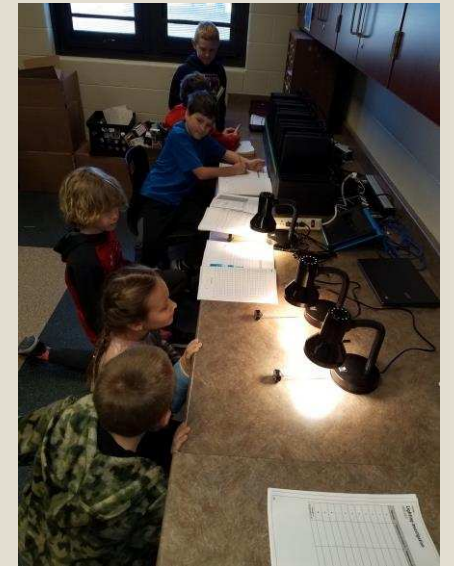
Light Investigation



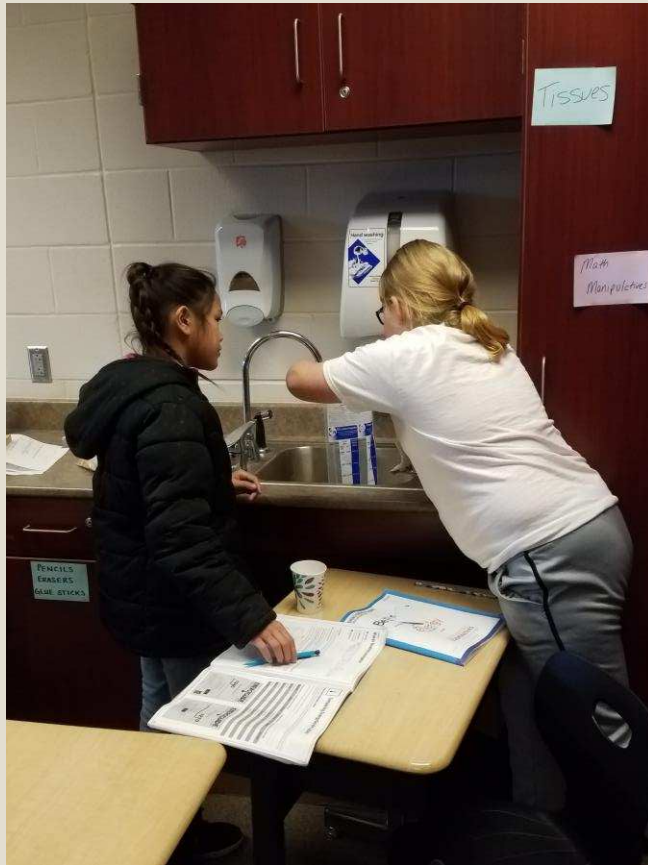
It was a proud moment to see my students be able to complete All About the Bulb activity. There were still items we learned during this activity and it produced good discussions.

Our favorite lesson was the light investigation. It was thrilling to actually see first hand how HOT the incandescent lightbulb got compared to the CFL and LED lightbulbs.

It was much appreciated to be able to extend this knowledge into our homes. Even the teacher's husband learned something new! 😊



Let It Flow! Let it Flow!



**Testing a number of rooms
throughout the school
created interest from other
teachers
wondering what we were up
to!**

