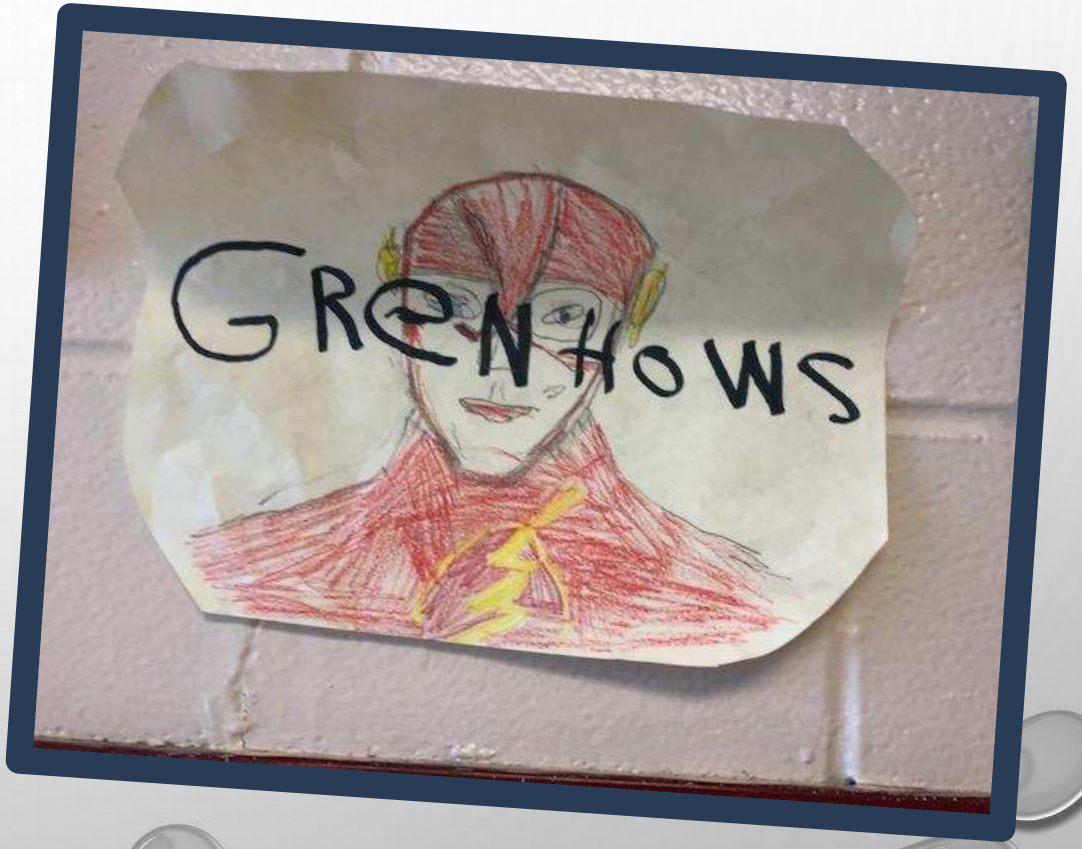
H2O AND OTHER SOURCES

KENNEDY MIDDLE SCHOOL

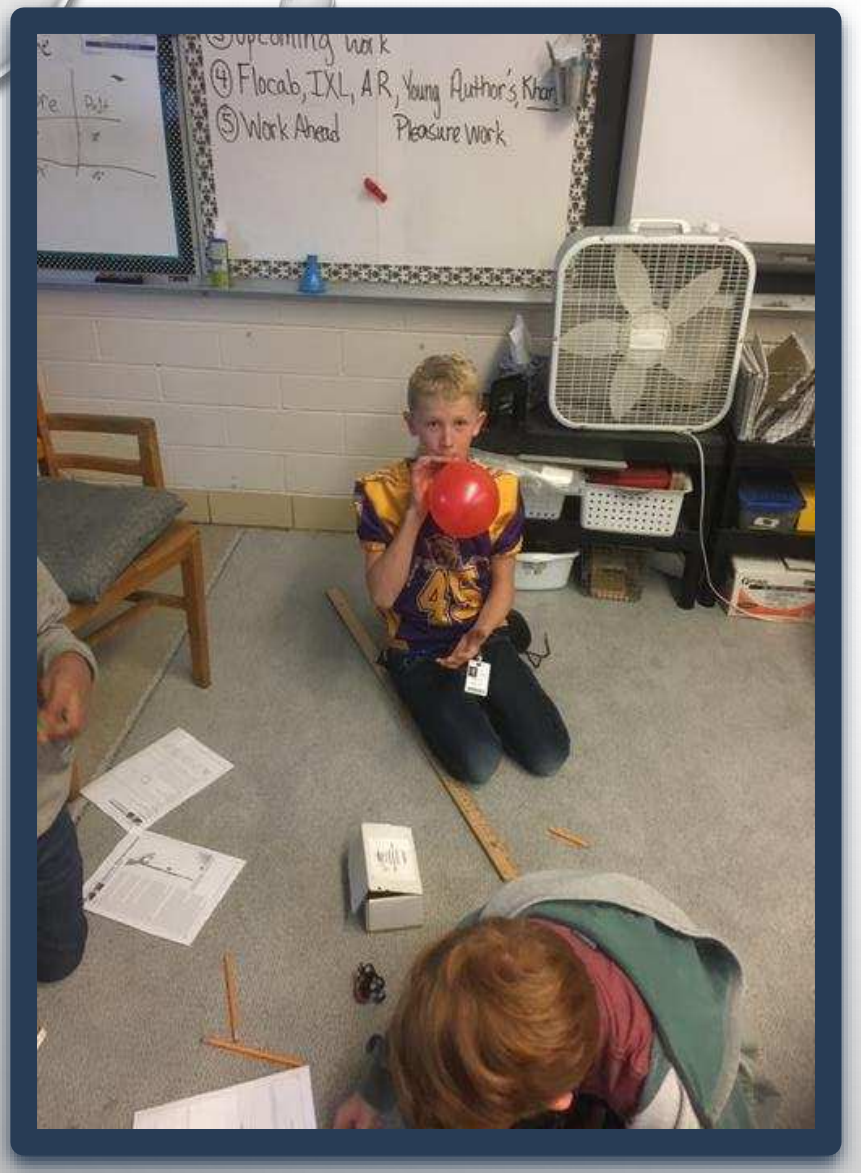
PROJECTS AND ACTIVITIES EXPLORING ENERGY SOURCES BROUGHT TO YOU BY DUSTIN RENEWANZ AND TRACY SELOCK'S AMAZING 5TH AND 6TH STUDENTS

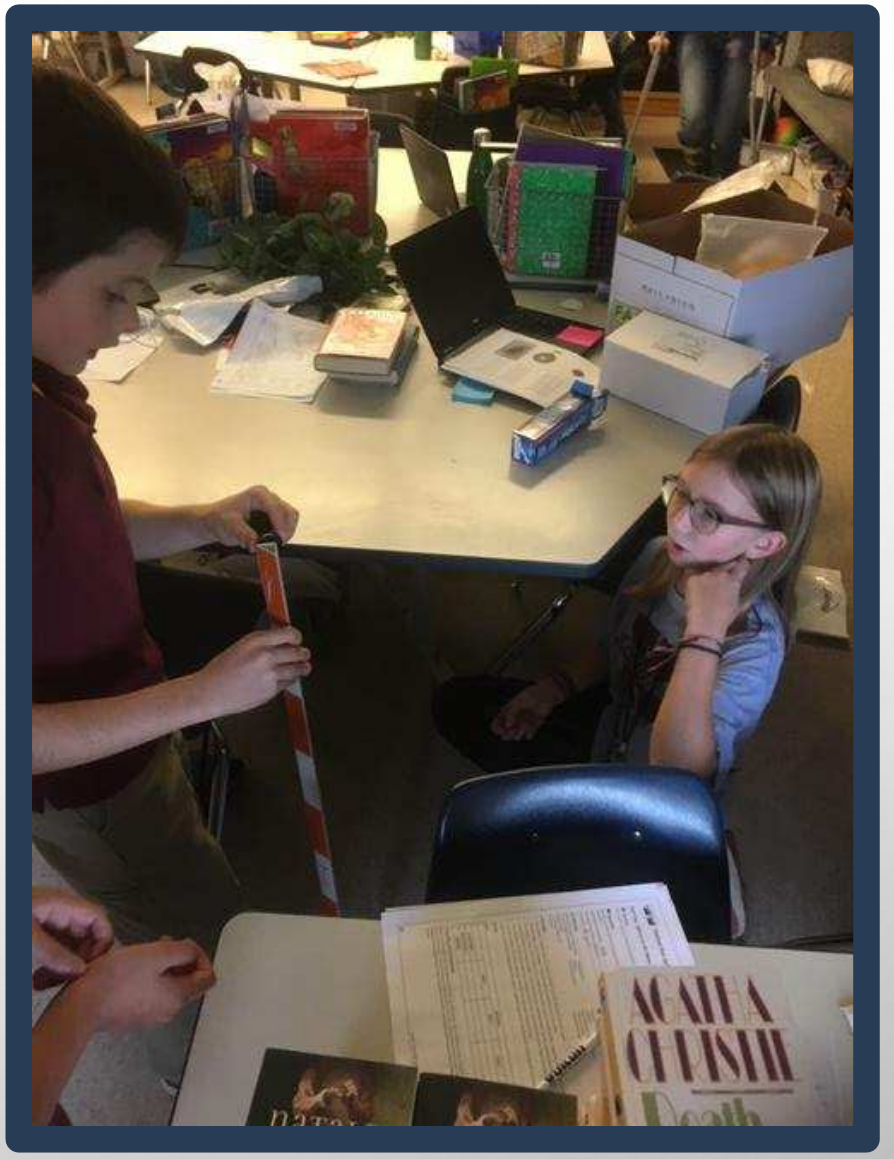
OUR GOAL THIS YEAR WAS TO HELP EDUCATE THE STUDENTS IN OUR SCHOOL, THEIR FAMILIES AND COMMUNITY MEMBERS ABOUT THE SOURCES OF ENERGY, ENERGY USAGE AND ENERGY CONSERVATION. WE ALSO WANTED TO HELP THE STUDENTS MAKE CONNECTIONS BETWEEN WHAT THEY LEARN IN THE CLASSROOM TO THEIR EVERYDAY LIVES.

GOAL 1: EDUCATE THE STUDENTS IN OUR SCHOOL ABOUT THE SOURCES OF ENERGY

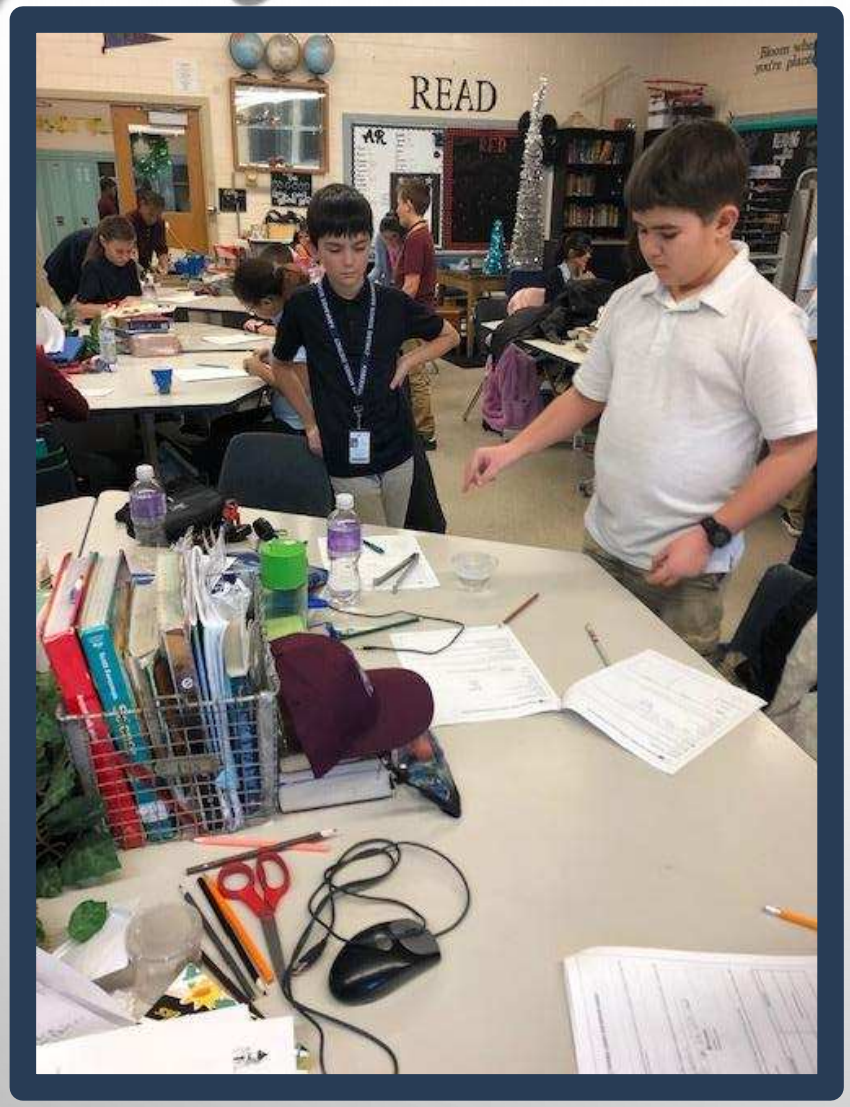


Activity: Energy Bumper Stumper

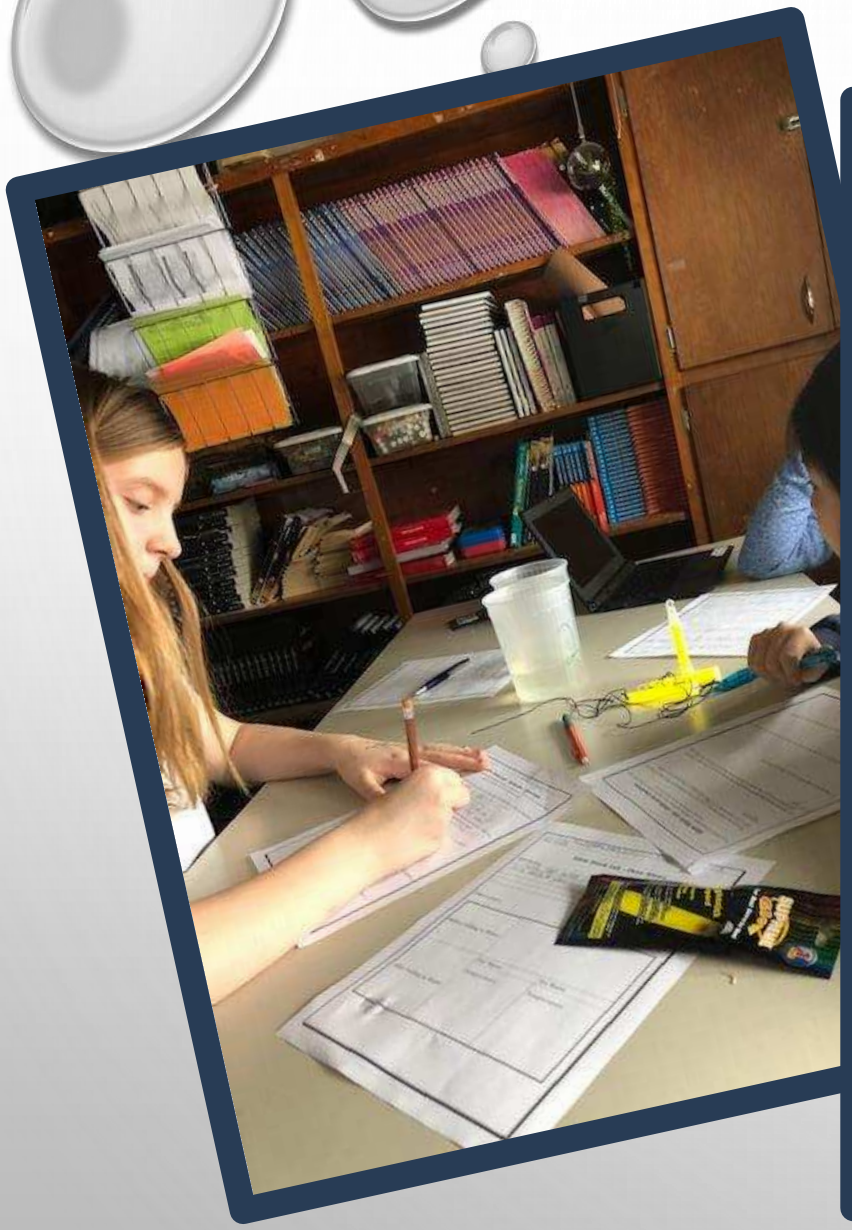


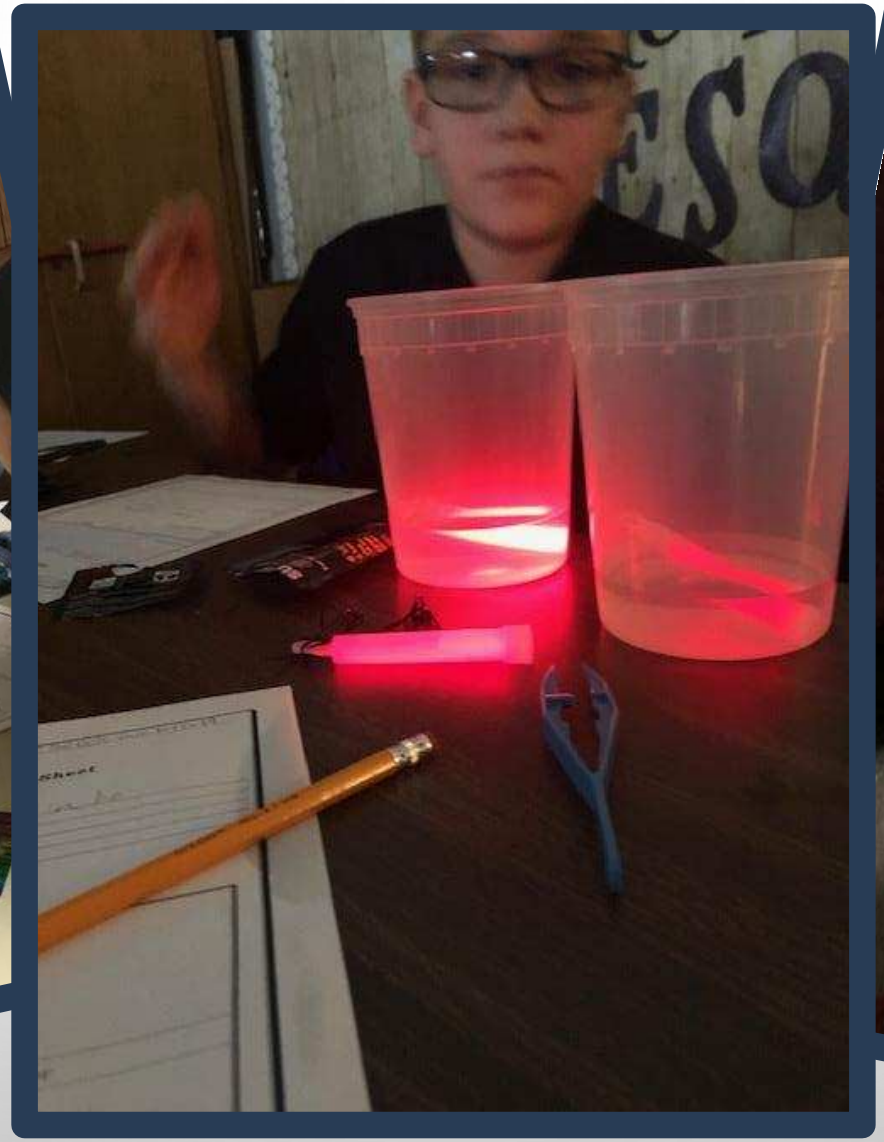


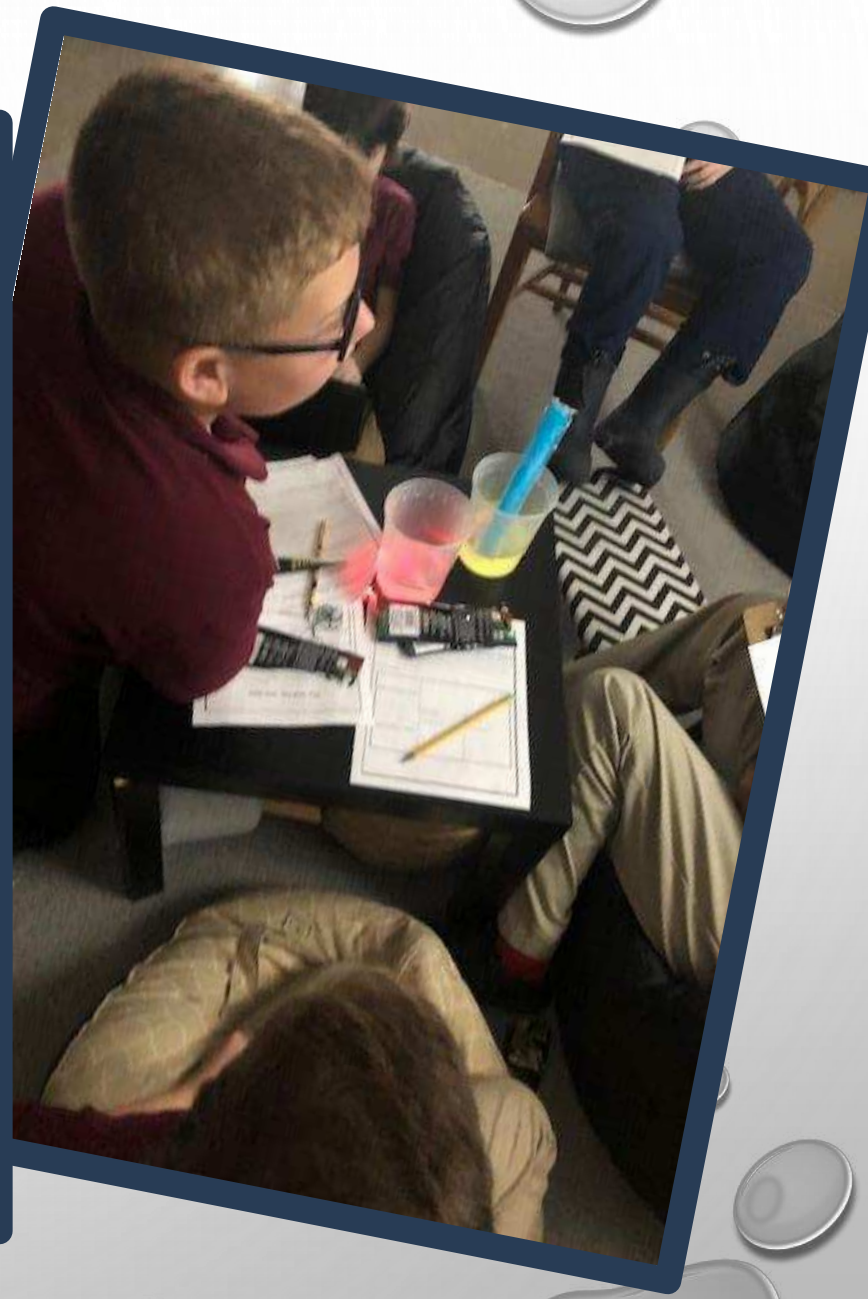
Station One: Kinetic and Potential Energy



Station Four: Thermal and Motion Energy



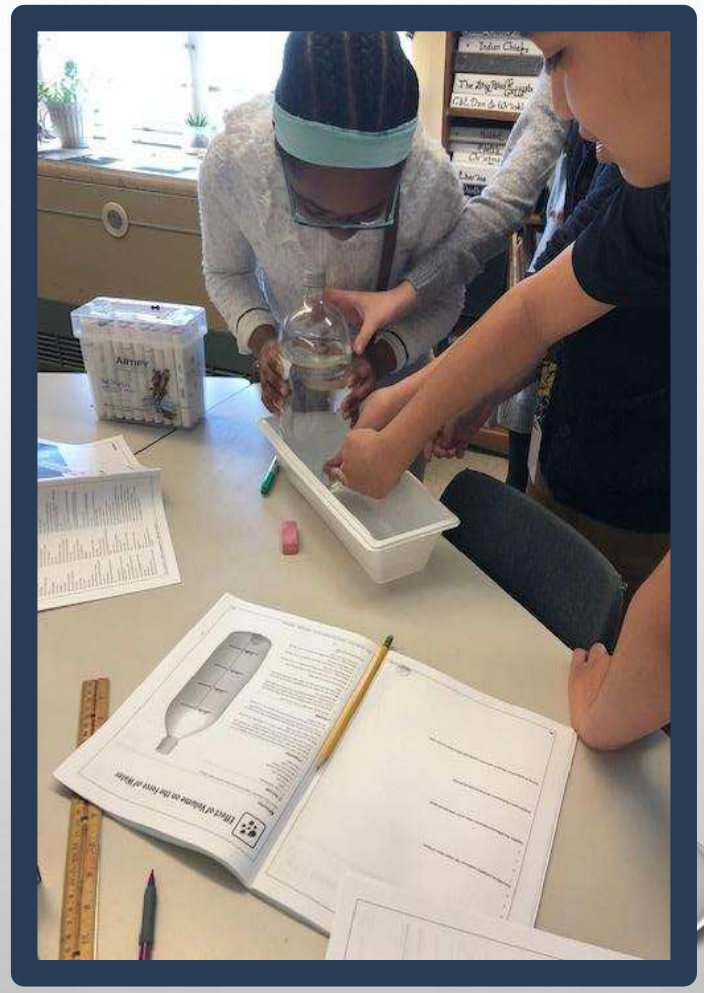


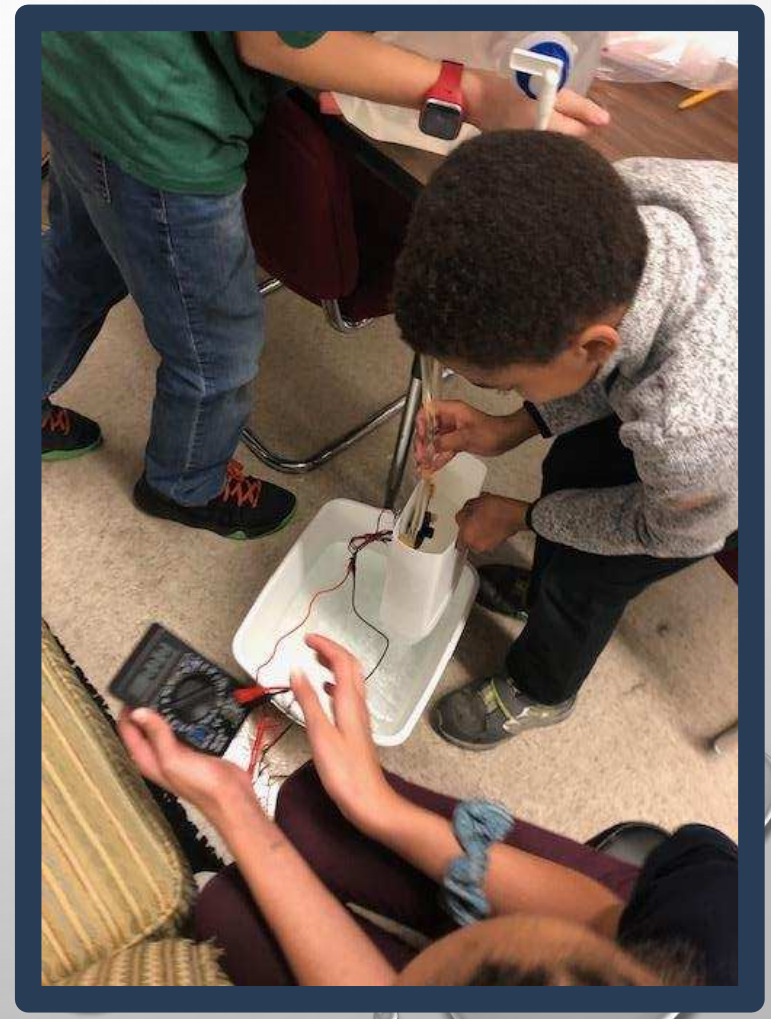


Station Five: Chemical Energy

WATER, WATER EVERYWHERE…

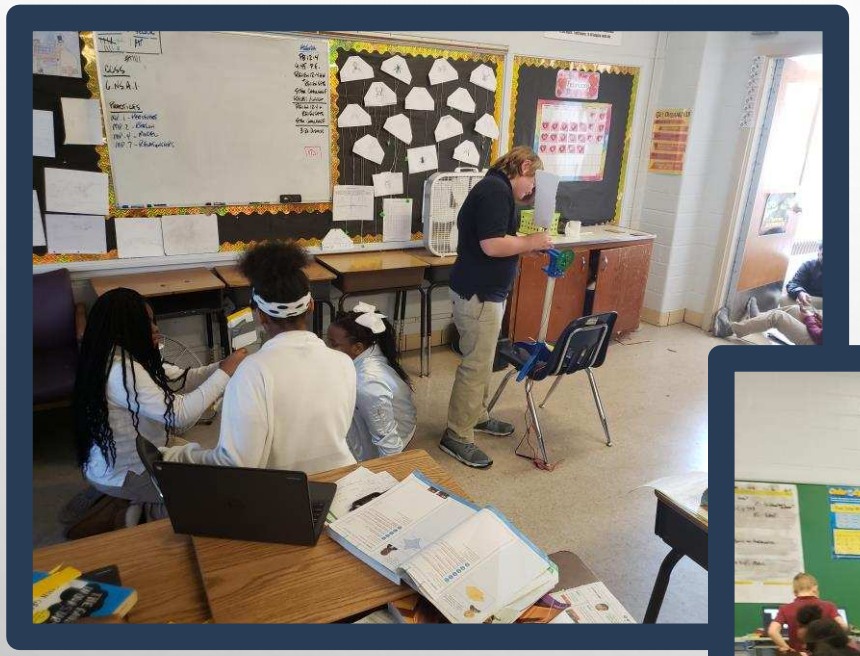
Our city has a small hydroelectric plant. We discovered that the power generated from the small facility powers our city's waste water treatment facility. We explored the power of water in the classroom as using the materials in the Energy of Moving water kit.

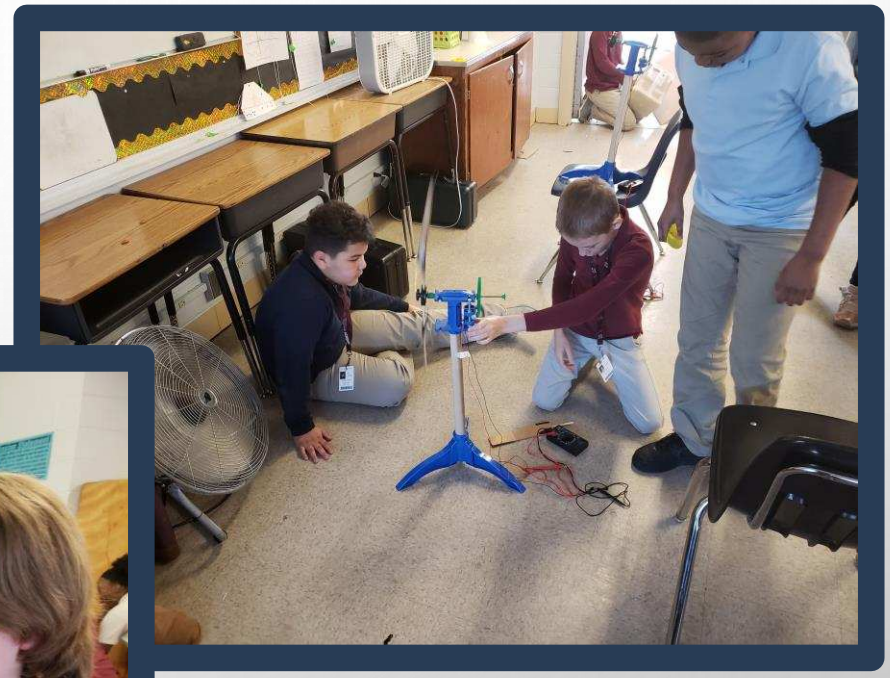




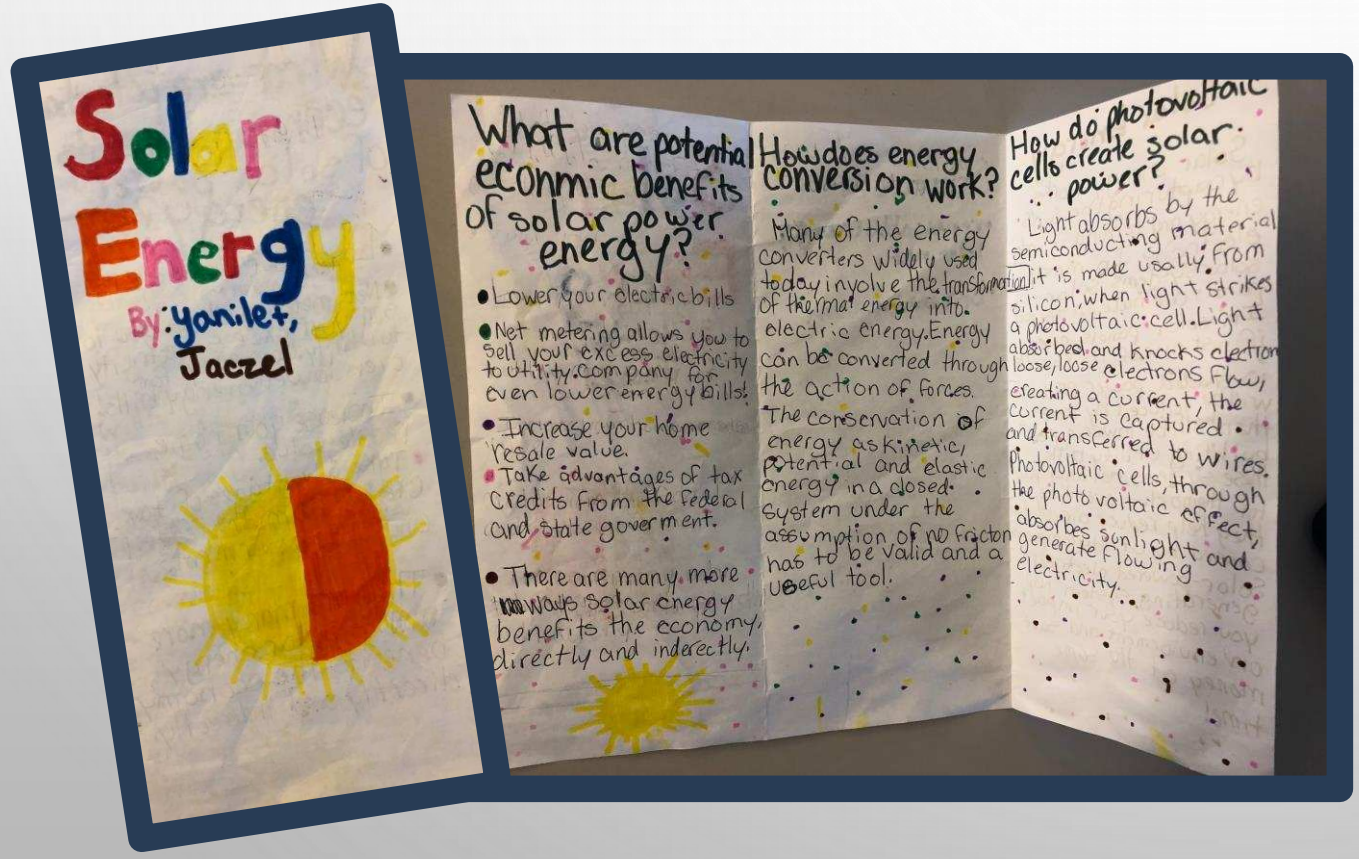
…BLOWING IN THE WIND…

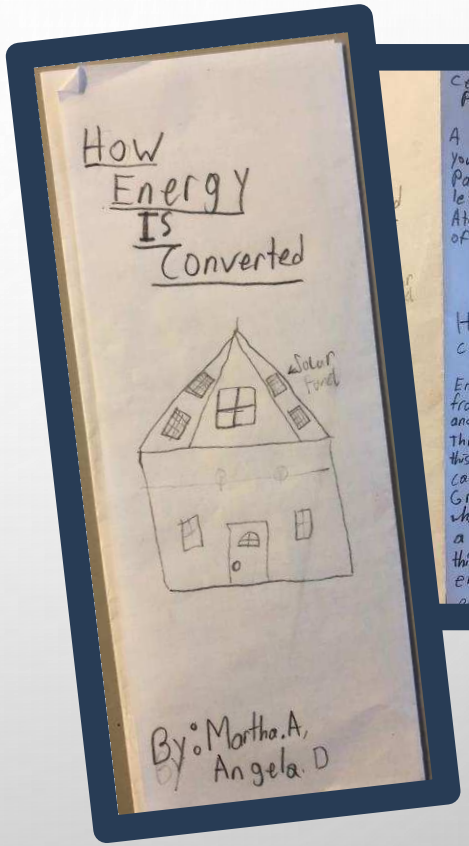
Our community is surrounded by wind turbines. Our students did an exploration of how wind turbines generate electricity using the Wind Energy curriculum.

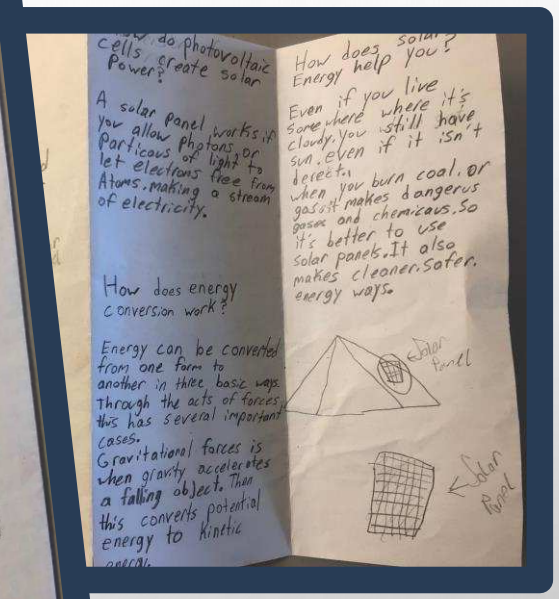


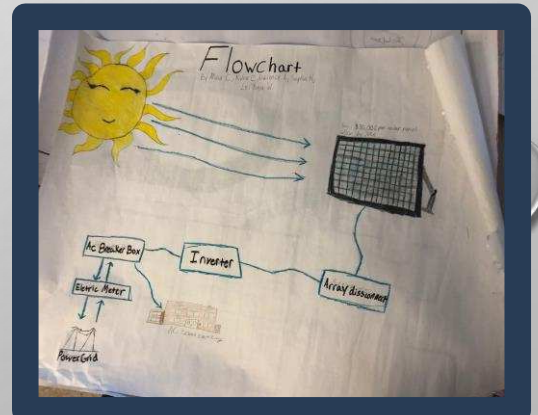


LET THE SUN SHINE IN…WITH SOLAR EXPLORATION







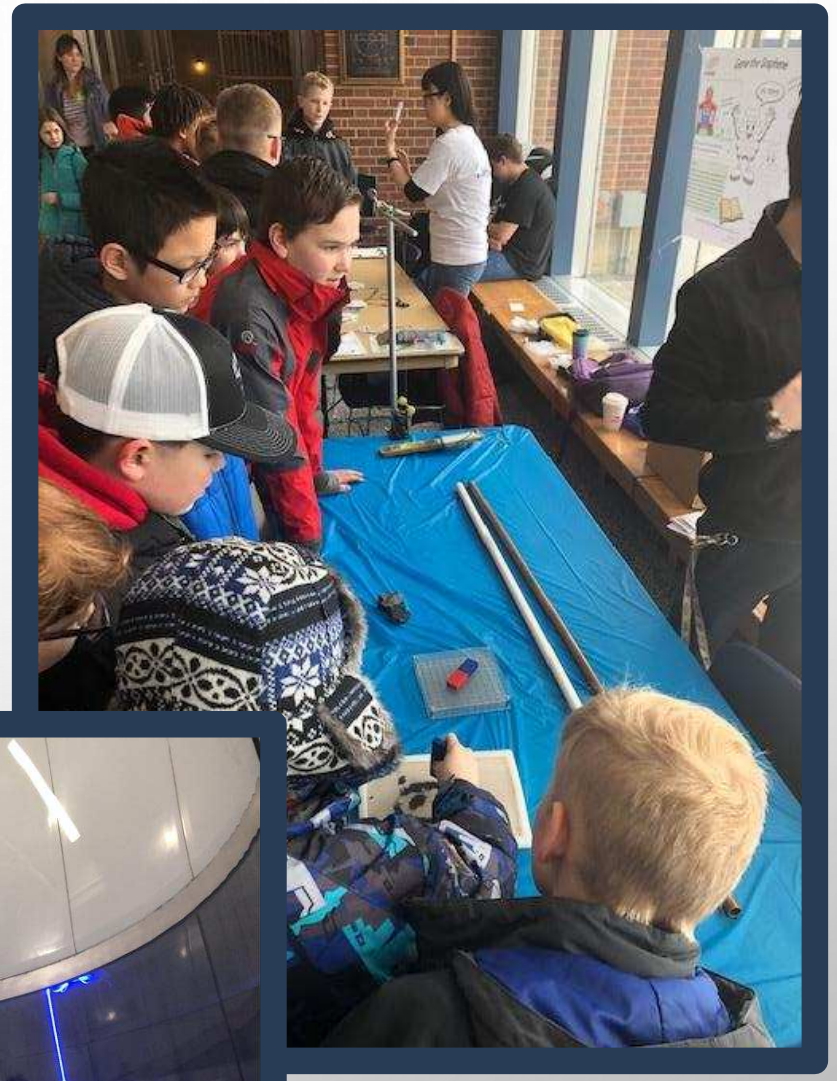


GOAL 2: EDUCATE THE STUDENTS IN OUR SCHOOL ABOUT ENERGY USAGE AND ENERGY CONSERVATION

Energy Audit at Kennedy Middle School-Learning how our school works and how we could make improvements. Even our custodian, Mr. Ron, gets in on the learning process.

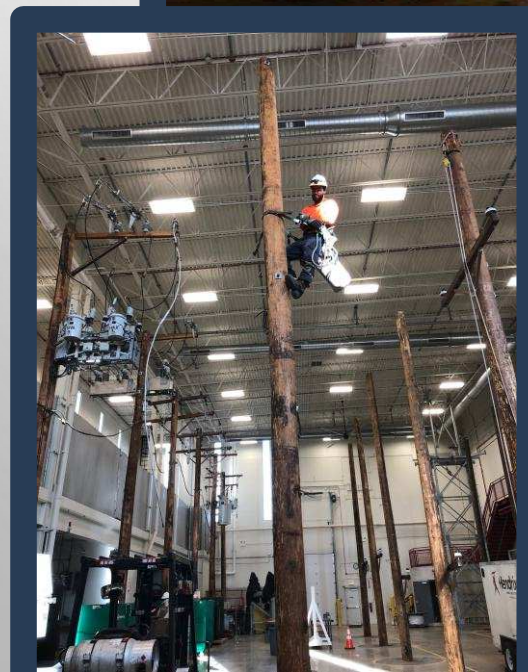
Field Trips and Experiences

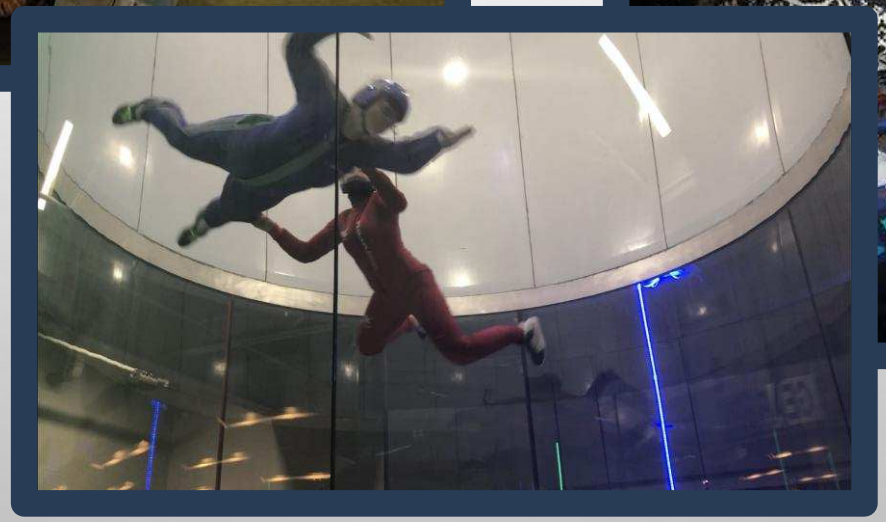
Museum of Science and Industry Chicago



University Of Illinois Engineering Open House

Teacher PD at the ComEd Training facility





Teacher PD at iFly-Wind Power

GOAL 3: TO HELP EDUCATE OUR FAMILIES AND COMMUNITY MEMBERS ABOUT THE SOURCES OF ENERGY, ENERGY USAGE AND ENERGY CONSERVATION.

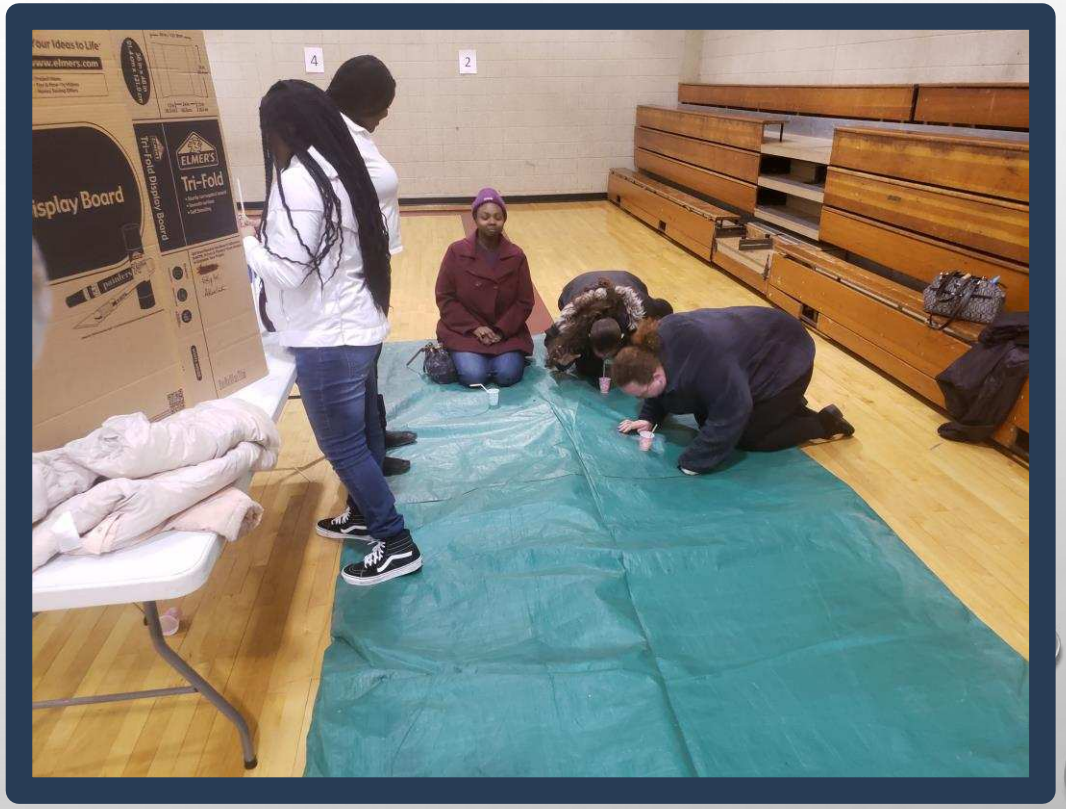
In early March we held and Energy Carnival/Science fair. Over 200 families and community members came out to learn about the Science of Energy and other amazing STEM topics and occupations.

Energy Carnival Games

Science night activities…

Families try some blade design.

Getting oil and gas to the surface is harder than you think!



This year we added on to our study of energy. We obtained additional resources from the Illinois State University Center for Math, Science and Technology. We were able to transfer all that we learned from NEED into wiring our own cities from various power sources. We used what we learned about conservation of energy to operate smart homes.

We used what we learned about energy to wire a city on the smart grid.

Are You Smart About Your Energy Usage?

We Are!