



Short Line School Engineer Energy Kids

“In Learning You Will Teach,
In Teaching You Will Learn!”

Advisor:
Leslie Lively

Goal: Our goal this year was to work with students within our school and community members to teach them about energy. This goal may seem small, however we knew we wanted to make a big impact on our students and community. This goal also allows us to live up to our theme this year-"In Learning You Will Teach, and in Teaching You Will Learn!"

Activities: Throughout the year we worked closely with Mr. Lively and the other teachers at our school to bring energy education into their classrooms. We were invited to teach the 2nd and 3rd grade classes about energy. When we visited their rooms we gave an overview of what the NEED Project does throughout the world.

We then worked with students at different stations teaching them about potential and kinetic energy, natural gas safety and the 10 sources of energy. We used games that we had created so that the students had fun while learning.

We also worked with a local business that allowed us to set up activities in their restaurant so that we could teach kids and adults that came into the restaurant to eat. At the restaurant we were able to work with the Science of Energy Kit to teach them about the live wire as well as how fruit can be used to produce energy.

Our school holds several Family Fun Nights throughout the year and we were asked to be part of one of those events. We had stations set up for kids and adults to visit and learn about energy. Students and parents alike learned about wind energy, Wonders of Oil and Gas and Science of Energy.

We felt like we lived up to our own theme this year by teaching others so that hopefully they will in turn someday teach as well.

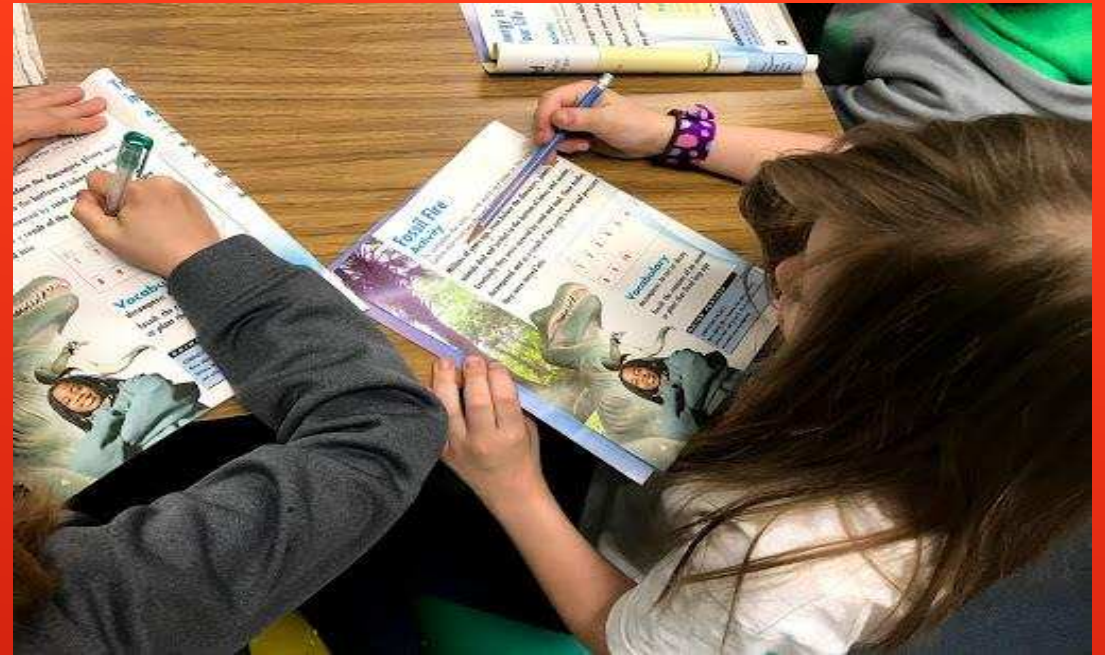
Resources: Science of Energy, Wonders of Oil and Gas, Wind Energy and energy games that we made.

Leadership: There are only three of us in the Junior Level program this year so we all had to become leaders.

Evaluation: Our evaluation was based on the feedback that Mr. Lively received from the 2nd and 3rd grade teachers as well as the community.

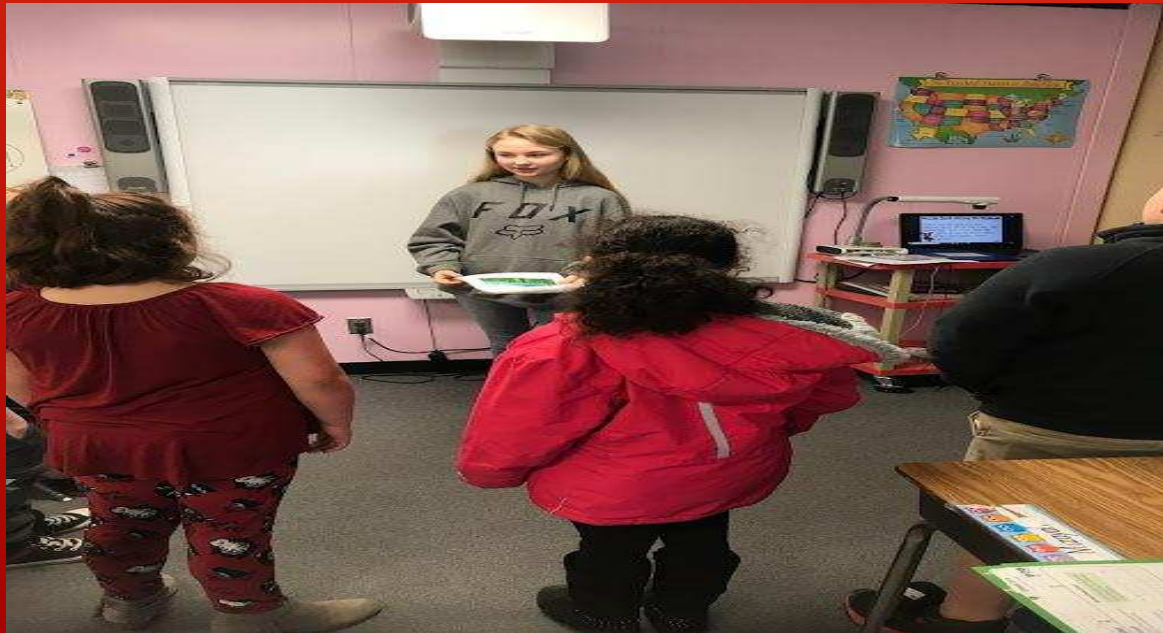


Visiting the 3rd grade classes to teach them about energy.



Learning about natural gas

Teaching about the NEED Project and how you learn about energy.



Do you know the 10 sources of energy? We do! Games make learning more fun.

Learning about renewable and nonrenewable energy.



Fishing for kinetic and potential energy





Live wire and "apple" battery.



Who says you can't eat ice cream while learning about energy.



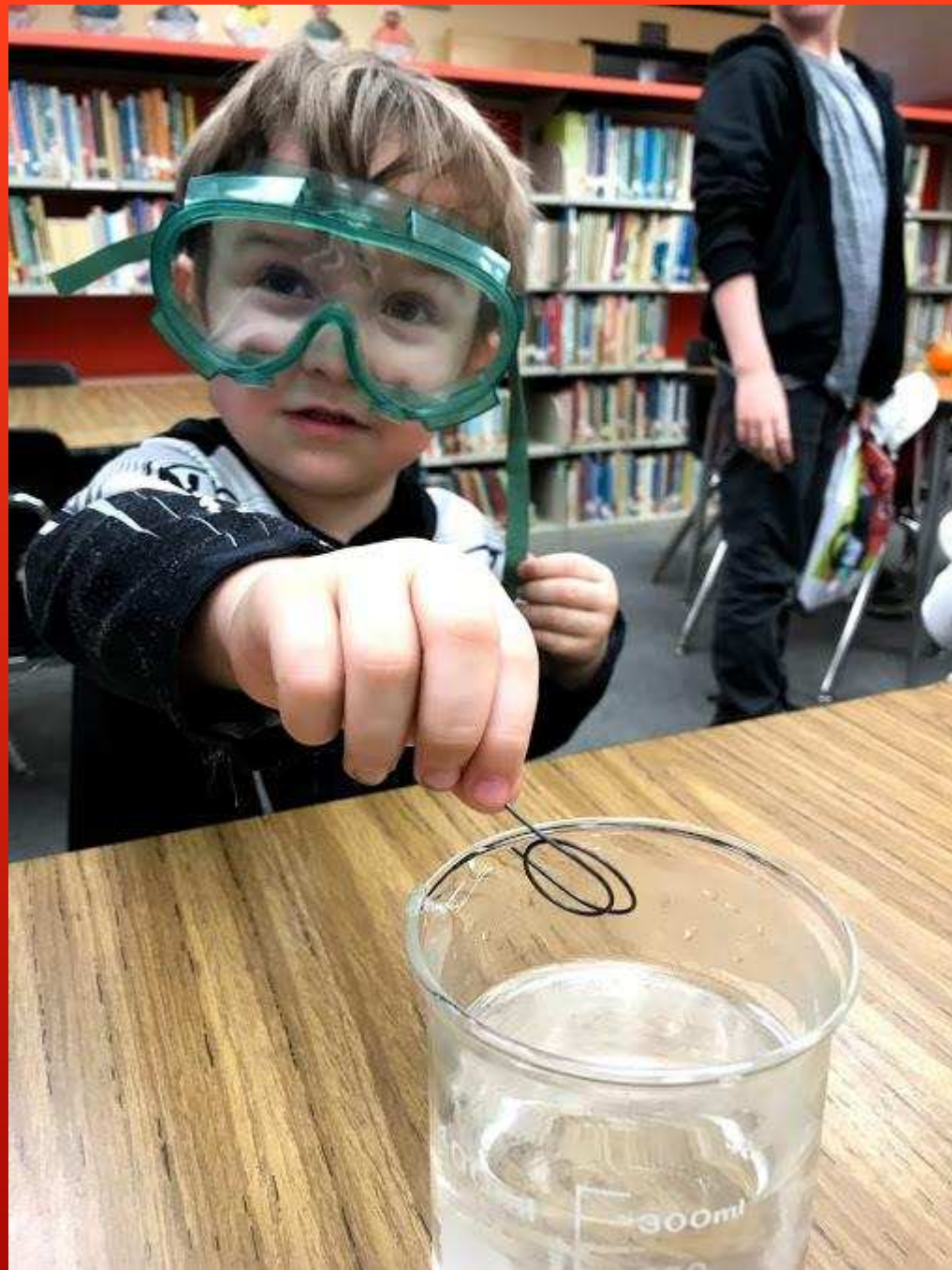
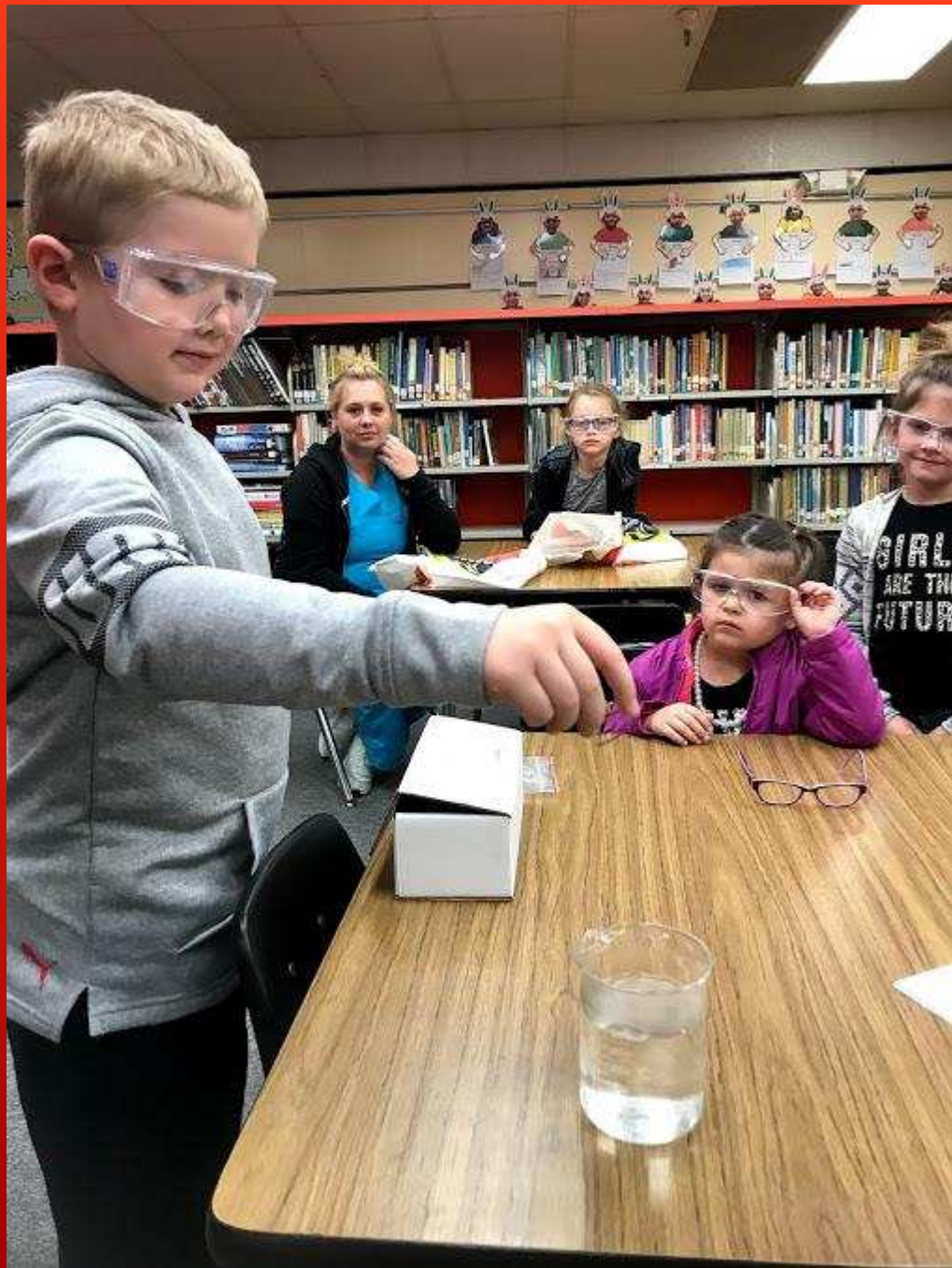
Teaching and learning about the live wire. Did you know that the live wire was an alloy of 50% nickel and 50% titanium. It remembers its original shape when it is placed in hot water.



Kids of all ages can learn!



Teaching the community about energy at a local restaurant.



Family Night was a great success. We had almost 200 guests go through our stations. We love to see the young kids learning. They are going to be really good in science class!



Did you know that they "apple" battery works because of a chemical reaction? You can also use other fruit as well. We even used soda pop and it worked.





Who can make the best wind turbine blades? Let's be creative and see if we can come up with the best ones.



Learning that chocolate syrup is harder to get to the surface than chocolate milk.

