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REEDY FORK ELEMENTARY SCHOOL GREENSBORO, NC TEAM NAME: ENERGY HUB DIRECTOR: T<u>RACEE WEATHERSBY</u>



CONNECTING OUR SCHOOL COMMUNITY TO ENERGY CONCEPTS

OUR GOALS:

3rd-5th Grade Students

Our first goal was to educate students at Reedy Fork on Energy concepts by hosting an interactive energy fair for 3rd-5th grade.

² K-2 Grade Students

Our second goal was for the 4th graders on our team to educate Kindergarten-Second grade by presenting hands on stem activites.

meet the Team

5th Grade Team

4TH GRADE TEAM

Reedy Fork Elementary 2nd Annual Energy Fair Energy Fair Topics:

Each group researched the topic using NEED information packets and other resources. They designed their own presentation boards. Each table provided the students with a hands on activity related to the topic. The topics covered during the Energy Fair were:

- Heat Transfer, Conduction and Radiation
- Chemical Energy
- Solar Energy
- Wind
- Weather: Tornadoes
- Kill a Watt
- Kinetic Energy and Potential Energy

Solar Energy

I really like this progect because, the details and experiements me and my partner did. We built a solar car and were able to teach other kids about what solar energy is.

Click on the picture to watch the video of our presentation.

Building the solar car

2nd Grade Students

4th Grade Students

We talked about how solar energy is radition from the heat lamp. The solar car moved from the heat lamp radiating solar energy into the car.

Hampton Before and After

HAMPTON ELEMENTARY

Hampton Elementary School got hit by an F2 tornado on April 15th, 2018. The school got demolished and eventually, they just tore the school down. So that the kids at Hampton could still have an education, they all came to Reedy Fork!

Beather: Tornadoes

Click on the picture to watch the video of our presentation on Tornadoes

We built tornado tubes. It is two, two liter bottles and a plastic holder in the middle. We added water to one side. When you swirl it around it makes a Tornado!

BUILDING OUR TORNADO TUBES

We built 5 tornado tubes. We are testing one out in the picture.

3rd Grade Students

WHAT IS A TORNADO

A tornado is a rotating funnel shaped cloud that goes to the ground with whirling wind that can reach 300 mph.

Jayvia :I think the presentation and the energy fair went well and the kids really liked it. I enjoyed teaching them about wind. My favorite was leading the 4th grade team to present wind to kindergarten.

Navaeh: I think that the presentation went really good and a lot of the kids were really sweet and kind and I had a lot of fun. My part in the presentation was to discuss wind turbines.

Being a leader with the 4th Grade Team

Click the picture to watch our Presentation video

4th Grade students

Linetic Energy

Hi my name is Hayden, and think I did pretty good on our presentation. I really like it cause we had a few cool things like a marble run, flying butterflies, the happy and sad balls, and the really happy ball.

Click the picture to watch the video of our presentation

Hi my name is Jacob and I think our presentation was really cool! So Hayden was talking about kinetic energy and I was talking about potential energy.

Kinetic energy is motion. Potential is the build up of energy before the motion. Like the roller coaster below. The coaster going up the hill is building potential energy. When it goes down it is kinetic energy. It is based on speed and mass.

Heat Transfer: Conduction. Convection and Radiation

Hello! My name is Meer and I though that the presentation was cool. We had cool gadget like a hand boiler, energy rod, dipping bird, and the radiometer. I was like I already learned this so I got it pretty easy.

Click the picture to watch the video of our presentation

2nd Grade Students

Hi my name is Oziel, and I love to talk about our presentaion, some kids are really bad but alot were really nice and that quite changed everything.

Practicing with the Energy Rod

Leading the 4th graders in their presentation on heat transfer.

4th Grade Students

4th grade Team We traveled to our K-2 graders to teach them about wind, weather and heat transfer.

It was so much fun to teach to the younger students at Reedy Fork!

Click the picture to watch the video of our presentation

The Power of Wind video Kindergarten with pinwheels

Video of wind Presentation

1st Grade students enjoying the presentation on tornadoes and the tornado Tubes

Hill a Watt NEED Learning and Conserving Kit

4th Grade Students

Our board and table. We had a toaster, ball pump and lamp to show the different kill a watts.

There was a lap, toaster and a radio .We use a kill a watt meter to tell how much watts each item uses. We used the NEEd KIt for this presentation.

Chemical Energy

At our station we presented how glowsticks glow and how they get brighter. We also talked about how hand warmers and the get warm and how ice packs get really cold! Hand warms are something that heats your hand. All it happens by a chemical reaction.

5th Grade Students

Click the picture to watch the Video of our presentation

Our Board

We did a group activity of sorting the different recycling pieces.

The Guilford County recycling center came and presented a lesson on which items are recycled.

HEATING AND COOLING **UNDER THE FLOOR**

Our heating and cooling systems run under the floor.

Our School

Our school has been chosen as one of those in the top 10% of school facilities in the United States eligible for the Energy Star® label (Nicklas, 2008). It was cool to learn and share about how our school is energy efficent.

BUILD TO BE ENERGY EFFICENT

THIS IS AN ARTICLE ABOUT OUR SCHOOL! REEDY FORK IS 1 OF 2 SCHOOLS IN GUILFORD COUNTY BUILT WITH ENERGY CONSERVATION IN MIND.

Click on the interactive icon below.

Reedy Fork Elementary School -Innovative Design

Reedy Fork Elementary School - Innovative Read more about reedy, elementary, solar,...

Y yumpu.com

THE LAY **OUT OF** OUR **SCHOOL**

Built to be energy efficient

INNOVATIVE DAYLIGHT

All of our classrooms are designed to use daylight and not electricity.

DAYLIGHT **SKYLIGHTS**

Helps conserve energy by giving us daylight from the celing skylight.

SOLAR **PANELS**

We use solar panels to help with our energy bill.

Acknowledgements

JEANELLE LINDSAY **PROUD PRINCIPAL REEDY FORK ELEMENTARY**

This is my second year at Reedy Fork. I am so impressed with the energy team and their example of leadership. They are consistent all school year enforcing the energy team guidelines given by the district. They go above and beyond to teach energy concepts to the students on every grade level. They provided an in house field Trip for our 3rd -5th graders. Giving them hands on STEM activities. I am honored to be Their Principal and so proud of all they have done. Go Rangers!

> Jeanelle Lindsay Proud Principal of Reedy Fork Elementary

Reedy Fork Elementary is a school that has led the district in energy education for a whole school. The club members research, learn about different alternative energy, how energy is used, make teaching materials, and share this knowledge with the whole school. They decide what is age appropriate and focus on sharing with students through interactive activities in the classroom and through an energy fair. It has been amazing watching this program grow as the students have grown.

ELIZABETH KEELE ENERGYWISE SPECIALIST

Elizabeth Keele EnergyMise Specilist