

Reedy Fork Elementary Energy Wave



Energy Take Over by: Energy Wave

- Our goals:
- Educate the students at Reedy Fork Elementary on different topics of energy conservation.

❖ Goal 1:

We will educate our peers on different energy topics.

Pre K & K: Puppet show focusing on energy conservation and recycling.

1st Grade: Wind and it's power

2nd Grade: Energy Awareness

3rd: Solar power

4th: Recycling

5th Grade: Energy Fair: Each energy team member had a topic.

Student Leadership:

We made a skit and presented the puppet show to all kindergarten and PreK classes.

We spoke to a first grade class about wind and helped them make pin wheels.

The energy wave team led a 4th grade class through making an ornament out of recycled material for the teachers at Reedy Fork Elementary.

Each energy team member studied an energy concept. We used the NEED kits for solar energy, kill-a-watt and plug load.

★ Due to the corona virus we were unable to complete our presentations. We missed 2nd grade: Energy conservation and making note cards to pass out to parents.
3rd grade: Solar energy and making solar energy bracelets with the students.

❖ Goal 2:

Reduce Reuse and Recycle

We Collect recycles every Friday.

We recycle plastics, paper and cardboard

Student Leadership: The students go down each hallway and make sure all recycled material is collected from each classroom.

We entered the program Pepsi Recycling Rally

Resources used:

- NEED learning and conserving kit
- Light meter
- Kilowatt meter
- Learning and conserving
- student guide: kilowatt investigation and light level investigation
- Energy from wind
- Built and anemometer
- Made pin wheels

The Wave of Energy Education

THE POWER OF WIND! FIRST GRADE

- We began by learning about wind and we used the NEED kit on wind. We built an anemometer.
- We took it outside and used it to see how fast the wind was moving.
- We counted the number of rotations and it was 9. So the wind was moving 9 mph.
- We also used the wind gauge.



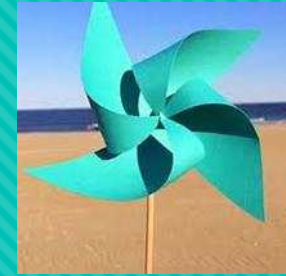
Testing out the Pinwheels

The windmil was cool because it can tell you how fast the wind was going. And I like how the wind feels good to do something





MAKING PINWHEELS WITH 1ST GRADE



- We did a presentation on Wind and how it is formed
- We helped a 1st grade class make their own pinwheels.
- We went outside to test our wind mills out. It was a windy day! It does not show in the pictures but they were spinning!



Our
pinwheels
were moving!

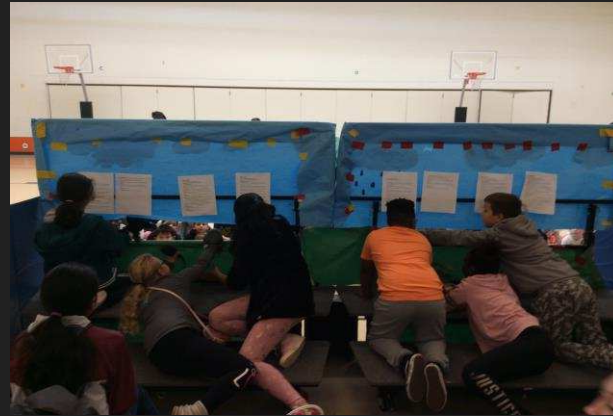
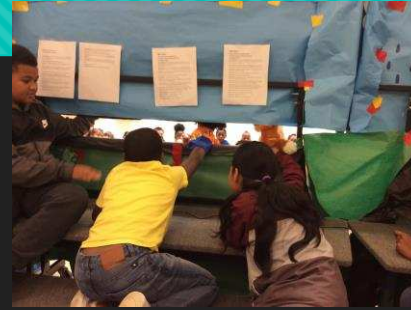




THE PUPPET SHOW KINDERGARTEN AND PREK



- We created two skits for the puppet show: Star wars is about energy conservation; Tortoise and the Hare is about recycling.
- We presented to all the kindergarten classes and preschool as well.
- It was a lot of fun!



I think the puppet show was cool and awesome how because I got to be the fox and the part with the music.



My thought is the puppet show was very fun because we play with the little kids and we took their mind off work and have fun fun to entertain the little kids and show what to do with trash.

Snowman Ornament

4th Grade



- A representative from Guilford County Recycling center gave a presentation on recycling to one of the 4th grade classes.
- We lead 4th grade class in a craft of making a snowman out of paper towel rolls.
- The ornaments were given to each teacher in the building.

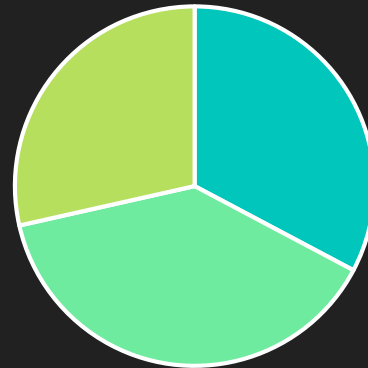


When we did the snowman I think it was fun but also hard. Because when we had to do things with fourth grade it was not very good. Some of them were doing the opposite of instructions. All through that I still had a fun time. It was nice making snow man for teachers. And giving it to them.

Light in our Building



- Reedy Fork Elementary is one of the few buildings in Guilford county schools that is energy efficient. Each classroom has skylights and we recycle.
- The teachers were leaving their lights on for 8 or more hours and it is wasting energy. We were going to share our graph and encourage everyone to turn out the lights and save energy.
- We preformed a light Audit and the pie chart shows the cost per hall way to run the lights. The Green hallway used the most energy.



Cost for Energy Used

■ Blue Hall ■ Green Hall ■ Orange Hall ■

School Light Audit Worksheet – 2019-20 (FORM G)
Average Electricity Cost = \$0.10/kWh (kWh = kilowatt-hour) 1000 Watts = 1 kW

Space/Room	Light Bulb Type	Wattage (Info is on light bulb)	Number of Bulbs	Typical Use, Hours/Day	Total Running Hours/Month	Monthly kWh	Monthly Cost	Yearly kWh	Yearly Cost	Total Annual Cost
Ex: Room 203	T-8	32 W	27	8 hr/day	160 hr/mo	5.1 kWh/mo	\$0.51	51 kWh/yr	\$5.10	\$137.70
509	T-8	17	30	3hr/day	248	4.216		42.16	421.6	126.48
605	T-8	17	24	3hr/day	93	1.581		15.81	158.1	47.43
606	T-8	17	24	4hr/day	124	2.108		21.08	210.8	63.24
607	T-8	17	24	1hr/day	24	0.403		4.03	40.3	12.09
608	T-8	17	24	4hr/day	124	2.108		21.08	210.8	63.24
609	T-8	17	24	5hr/day	155	2.635		26.35	263.5	79.05
610	T-8	17	24	3hr/day	93	1.581		15.81	158.1	47.43
611	T-8	17	24	5hr/day	124	2.108		21.08	210.8	63.24
612	T-8	17	24	2hr/day	62	1.054		10.54	105.4	31.62
Total # of Bulbs:										

computer lab: 505 T-8 x 12
Bathroom: Boys 2, Girls 8
Main hallway: 78 bulb

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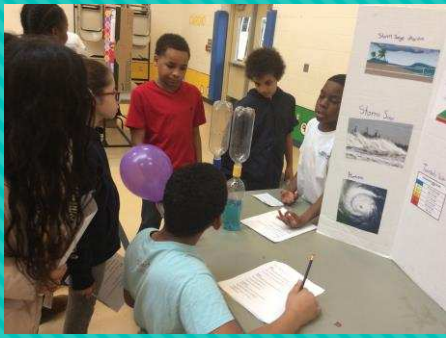


Recycling: Every Friday



- Every Friday we pick up recycling from each teacher. It usually is 4 large bags of recycling for the whole school.
- We recycle plastics, paper and cardboard at Reedy Fork.
- We signed up to log our recycling through the Pepsi pep rally.





5th Grade Energy Fair

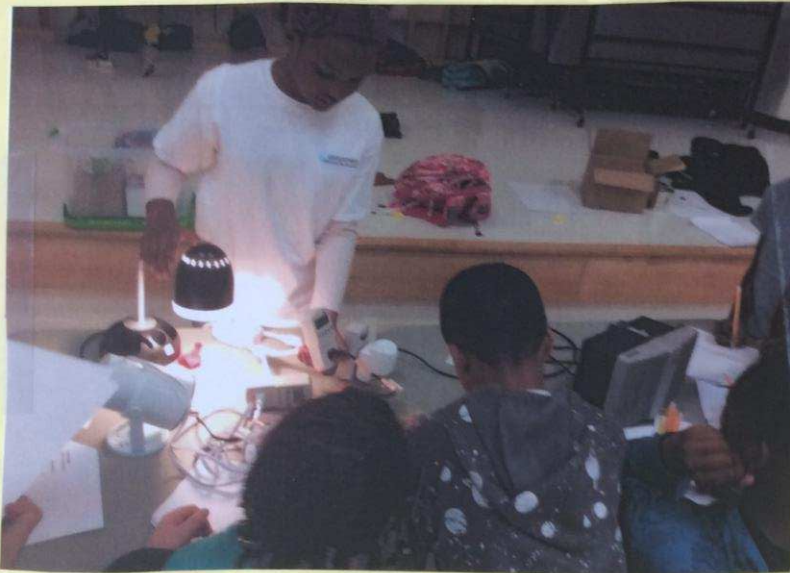


- We held the first energy fair at Reedy Fork Elementary with all of the 5th graders. We are going to teach 5th grade about energy.
- We researched our topics in the computer lab so we would be ready to present. It was Fun!
- The topics we covered were: Tornadoes, Kinetic Energy, Heat Transfer, Electricity, Chemical Energy, light, Conductivity, kilowatt and Solar Energy.
- We used the NEED kits for Solar energy, Kilowatt, electricity and light.

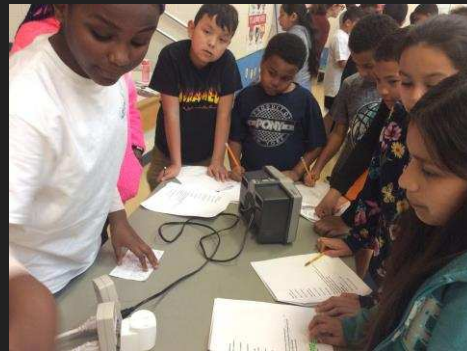
Energy Fair Highlights



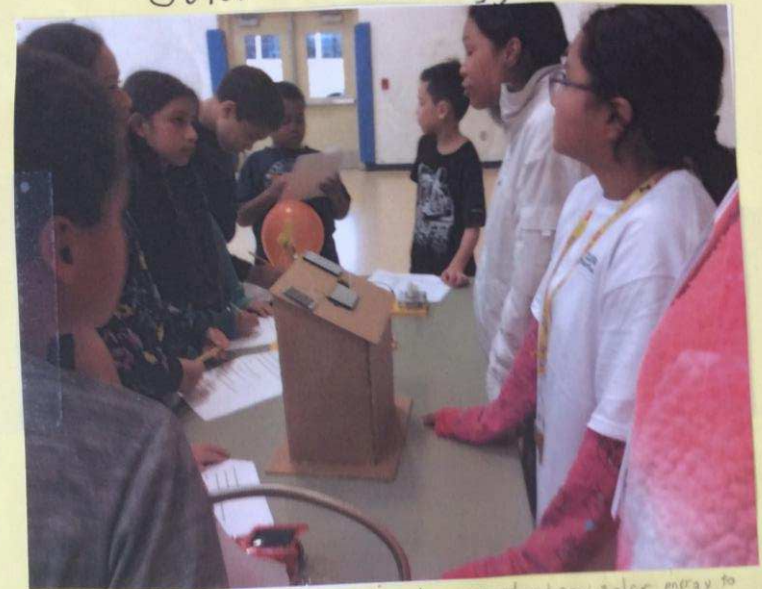
Kill-a-watt



The project was cool. I did kilowatts. There were several kilowatt meters, that hooked up to the lamps, heaters and air fresheners. The kilowatt meters show how much energy the item is using. Overall, the project was fun but some kids touch and talked.



Solar Energy



The kids we were demonstrating solar energy to were interested in solar energy they thought it was cool. everything was really good they liked the objects we presented it was very fun teaching them about solar energy. One fact about solar energy is that the sun's temperature goes to 5700-5800. And that solar panels absorb and light particles to produce energy.

Moments of Riding the Wave



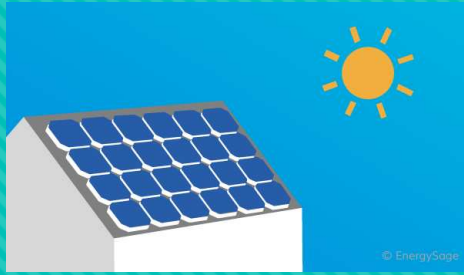
Handing out snowman!😊



Testing
the wind



Practicing the
puppet show



Solar Energy

3rd Grade

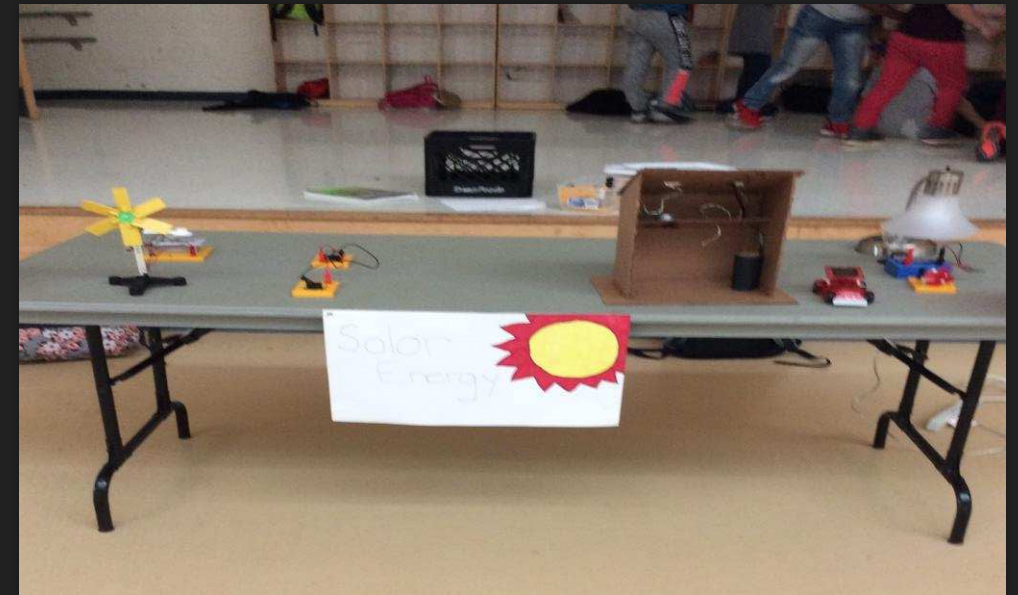


Due to the Corona Virus we were unable to present this lesson.

- The energy team planned to teach a lesson on solar energy
- How it is used for electrical purposes
- We planned to help the students make their own bracelet out of solar beads.
- We planned to take the class outside to see the beads change from white to colors in the sun.



Solar Energy Presentation



The Solar energy presentation would consist of the solar house and lamps from the NEED project.



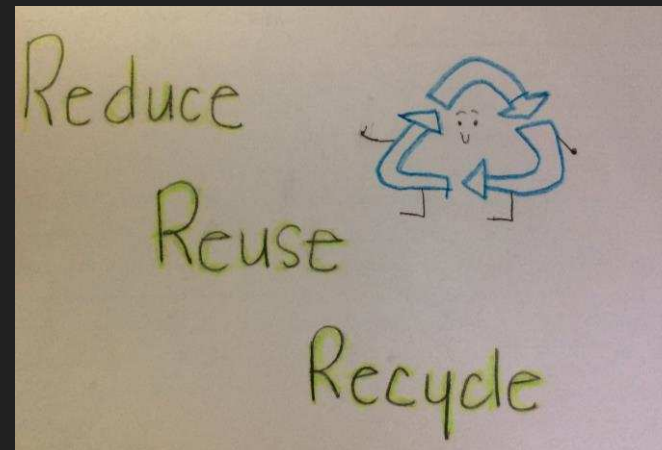
Energy Awareness

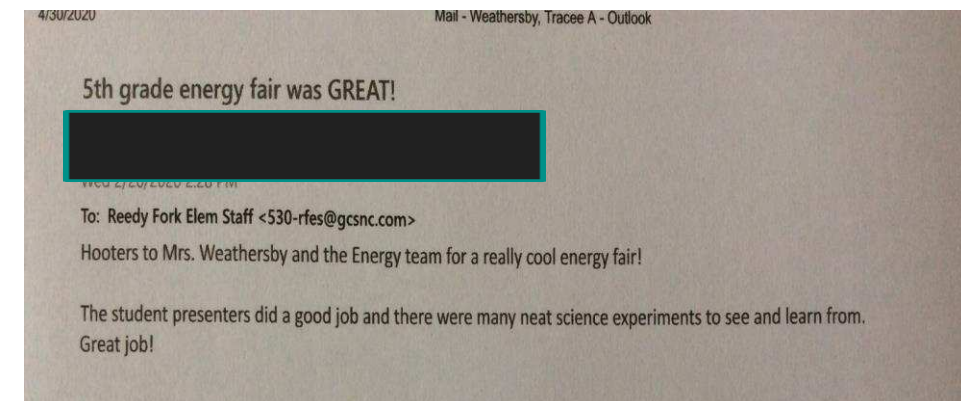
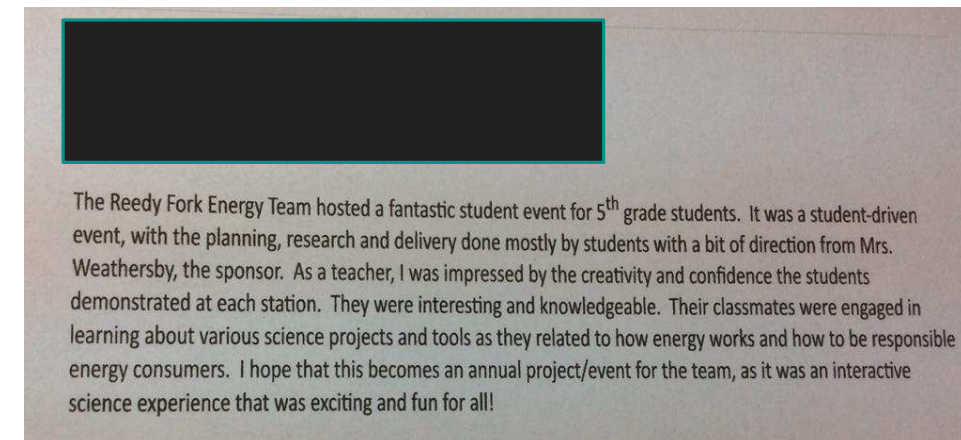
2nd Grade



Due to the Corona Virus we were unable to present this lesson.

- We were going to do a presentation on energy awareness
- We planned to create note cards with the 2nd graders.
- We were also going to pass them out in the hallway in the morning.





- We Won the Energy District Poster Contest!
- Two comments on the Reedy Fork Energy Fair



Positive Acknowledgements



Scott,

Tue 4/28

To: Wea

The team was creative and enthusiastic about saving energy in our school. They provided lesson to our students, modeled recycling, and ways to save energy.

We did our first presentation with Mrs. Scott's class

Energy Fair

Earlier this year, the Reedy Fork Energy Team, led by Mrs. Weathersby, put on an Energy Fair for the entire 5th grade. Students on the team researched various forms of energy and ways to save energy for weeks to prepare a presentation. Presentations were given at their own stations and completed in rotations so that all 5th grade students could get a more personalized experience as they filled out their questionnaires/quizzes proving comprehension and application of learned material. It was so refreshing to see peers teaching and learning from each other, and supervising teachers, myself included, felt that it was extremely successful to the point that we have encouraged the need to repeat this fair every year.

Mrs. Doom assisted in monitor the Energy Fair.