Reedy Fork Elementary Energy Wise Need Project

Energy Wise Director: Mrs. Tracee Weathersby



Our goals:

- To educate our staff and peers about the importance of conserving energy, water, resources and keeping our earth clean by recycling.
- ▶ To learn about energy and how to conserve it.

Goal 1: To increase student knowledge of energy conservation.

- We performed a puppet show for the kindergarten classes to teach them about conserving energy.
- We performed a Star Wars and a skit which discussed how to save energy.
- We did a kill a watt investigation and studied which bulb was energy efficient.
- We used the light meter to find out how much light is in different areas of our school.

Goal 2: Reduce, reuse and recycle

We collected recycles every Friday

We made gifts and bird feeders out of recycled materials

Student leadership:

Students made up the skit Tortoise and the Hare to address recycling.

Students created the backdrop for the puppet show.

The kindergarten students answer questions about energy. Resources used:

- NEED learning and conserving kit
- Light meter
- Kilowatt meter
- Learning and conserving student guide: kilowatt investigation and light level investigation





THE PUPPET SHOW

We created two skits, we practiced and presented it to all of the kindergarten students. The first skit was Star wars and it was about energy conservation. The second was about recycling and the story was Tortoise and the Hare.







Gabriel about the show

Jeopardy!

We created a game of Jeopardy for one of our 5th grade classes. We went to the computer lab and did the research on our topic. We made up the questions and answers. It was a lot of fun!



I think it was awsome but the class was thinking hard with the guestions. They had some struggles I know next time they will do much better





teposdy was awsome! And I think that it helpeil the 5th graders In these Science.





Solar Oven

We built two solar ovens out of pizza boxes. We learned that solar power is strong enough to cook food. We went outside and cooked s'mores in them. Yummy!













RECYCLING

All year we collected recycles from every classroom in the building. Recycling is

important for our environment.











Making Gifts out of Recycled Materials



We made gifts for our teachers out of recycled materials. We used two liter bottles and made a subirrigated planter.

I think the rest that we made out of recycling was so cool I also loved that we are making plants for the teachers. I love everything!!!!!!













Gift for the Front Office

We also made a wreath out toilet paper rolls for the front office.









Bird Feeders



We made two bird feeders for our school. They were made from recycled juice boxes. The birds are loving them!











We made note cards which encouraged recycling, energy conservation and water conservation. We passed them out to parents at the beginning of school.





I think the notecards was a aucsome Idea. We was running up to fhem to get there attention They looked at us and smiled.









Presenting at the Energy Fair: Kinetic and Potential Energy





Center for Energy Research and Technology North Carolina A&T State University

We were asked to present at the Annual Cert Energy Day at North Carolina A&T State University. We were given the topic of Kinetic and potential energy. We presented to middle and Elementary school students from Guilford County.











Need Activities

Below is a list of recommended illumination levels for school location recommendations from the Illumination Engineering Society of North Amer AREA	na.
Classrooms (Reading and Writing)	FOOT-CANDLES Ready fork
Classrooms (Drafting)	50 60 8
Computer Labs (Keyboarding)	75 <u>16</u>
Computer Labs (Reading Print Materials)	30
Computer Labs (Monitors)	50 [] 3]2
Labs-General	3 12 50 7 D
Labs-Demonstrations	30 & / 100 Ю
Auditorium (Seated Activities)	10 (_)
Auditorium (Reading Activities)	50 7/
Kitchens	50 21
Dining Areas	30 Jan
Hallways	30 [역] 20-30 고비
Stairwells	
Gymnasiums (Exercising and Recreation)	15 <u>38</u> 30 1 - 17
Gymnasiums (Basketball Games)	30 (Q') 75 QJ
Locker Rooms	10 2 5
Libraries and Media Centers (Study Areas)	50 40
Libraries and Media Centers (Other Areas)	30 65
Shope (Rough Work) Art	30 18
Shaps (Medium Work) Mussic	50 <u>4</u> 5
hops (Fine Works Mrs. Morore office	75 16
Offices (Reading Tasks)	50 15
ffices (Non-Reading Tasks)	30 18
acher Workrooms	30 30
inference Booms	30 78
ashrooms (Grooming Areas)	70 13
	15 23
ishrooms (Lavatories)	30 14
intenance Rooms	And the second se
Iding Exteriors and Parking Lots	13 1309

Recommended





Light Bulb Investigat	ion 1	
O Objective	7	
Students will be able to compare the heat output of an incandescent builb to a compact fluorescent light builb.		20 cm
Materials		1
22 Lamps 1 Incardisected light bulb 1 Compact fluorescent light bulb 27 Inermometers Kape		
@ Question	and the second second	
How does the heat output differ between an incandescent and compact fi	uprescent light bulb?	
Hypothesis WE think that the be Hotter than the Isd	FIWILSENF	bolb wil
- of months than the Its	bulk,	
✓ Procedure		
1. Place the incandescent bulb in one lamp and the compact fluorescent I	oulb in the other.	
2. Place the lamps on a table about 20 cm away from a blank wall. The light	t should face the wall.	
3. Tape the thermometers to the wall so the lamps shine directly on them	as shown in the diagram abov	e
4. Record the thermometer readings in the chart below.		
5. Turn on the lamps. Record the thermometer readings at 2-minute inter-	vals for 10 minutes.	
	oge). Compare.	
6. Calculate and record the change in temperature for each bulb (Δ = char		



What did you learn about the heat output of an incondencer build and compact fluorences light build low data to support your answer we learned that the flow recent build was hotter than the other builds. The incandescent Was hot to touch.





Awards and Comments

We received an award for the district wide poster contest and the gifts we made from recycled materials was presented on GCS News.

> Elementary Southwest Elementary Monticello-Brown Summit Elementary Gibsonville Elementary Shadybrook Elementary Allen Jay Elementary Colfax Elementary Reedy Fork Elementary Middle Hairston Middle High Smith High Early College at Guilford Southern High Specialty Newcomers School Project SEARCH - Moses Cone Project SEARCH - High Point Regional



Reedy Fork Elementary

The Reedy Fork Elementary Energy Wise team made sub-irrigated planters out of recycled 2-liter bottles for the 5th grade teachers. The team also created bird feeders made out of recycled orange juice cartons for the principal, and a wreath made from paper towel rolls for the office.



Final Thoughts

A Note from our Principal and the Head Custodian Mr. Rodriquez

Energy team

Schroeder, Denise

As I sit working at my desk, thanks to the Reedy Fork Energy Team, I am able to look out my window to watch the birds in the feeder eating bird seed. The team used recycled materials to make the feeder. Students also get a chance to see the birds when they visit my office. The office has been spruced up by new wreath which was made by energy team as well. The team works together to help make our school beautiful by recycling weekly as well. The students take their job serious and we are so proud of them.

Rodriquez McKinney, Kristian R

I'd like to say thank you and that I appreciate everything that the energy wise team has done this school year. You all have been a great help for the custodial staff and around the school. Keep up the hard work!

Mr. Kristian

Our Thoughts....

We learned the importance of conserving energy. Recycling and reusing items. We also learned how to be a team and work with our classmates on different projects. We enjoyed being a part of Electric Shock!

