

The Energizers of Michie Elementary School

Reduce, Reuse, Recycle

Advisor Ms. Debra Steen

We have conducted and participated in many energy activities. encouraging energy conservation, reducing, reusing, and recycling. We have provided energy conservation tips on our Michie News site. Parents have installed energy conservation kits saving on their power bills, and conserving on water. We have reused milk cartons for planting and competitions and collected jeans for the homeless. We have involved our school and community in our recycling program. Encouraging recycling by participating in the Keep America Beautiful recycling contest, in which we are waiting to find out our place in the community division, and by providing containers for recycling, and recycling aluminum cans. We have been nominated for the Governor's Environmental Stewardship Award and awaiting the results. We are being honored by our county and Keep TN Beautiful at a ceremony for our achievements. Our energy efforts in education have helped our county achieve recognition for its efforts in recycling for economic growth. We are making a change in our school, community, and county.



**A few of us working together.
Led by Eva, Alyssa, and Kennedy**

Reenergizing Teamwork

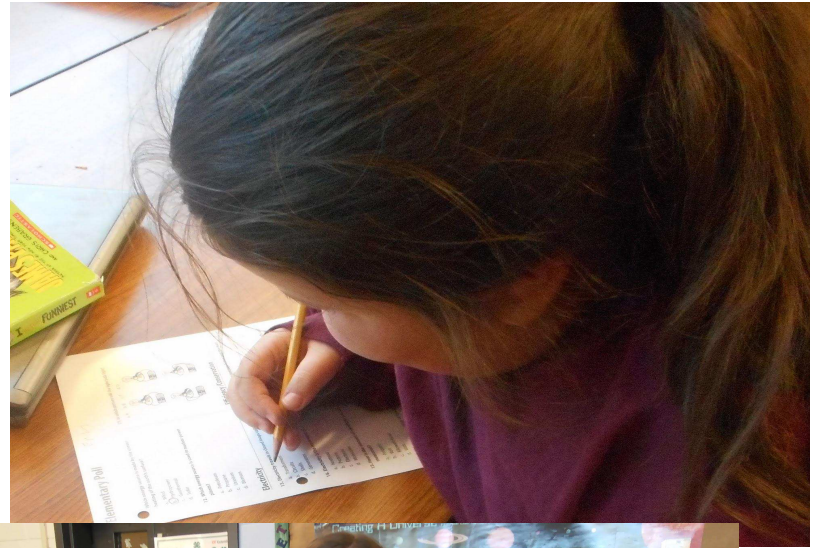
Goal #1 Focus on deepening energy content knowledge

Activities and Tasks: Obtain permission from advisor, take the NEED Energy poll, Participate in energy activities

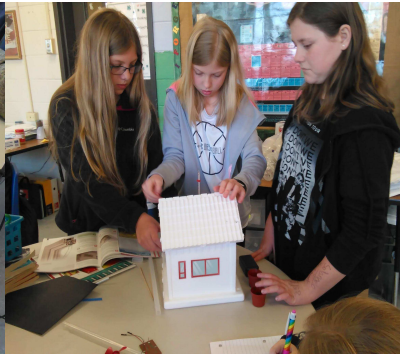
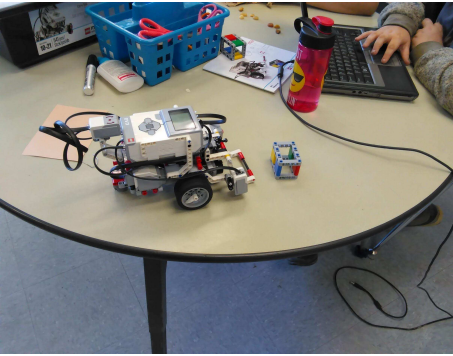
Energy Content and Resources: NEED Energy poll, Teacher resources from Energy Camp, NEED Science of Energy

Student Leadership: 15 students took the poll and 10 to 15 students were involved in most activities

Evaluation: Energy Poll scores were an average of 83% and upon completion were an average of 98% Number reached 276.



Mechanical, Solar, Wind and Sound Energy



Our robotics that we use to monitor solar, wind, and hydropower

Building and checking the temperature of our solar house.

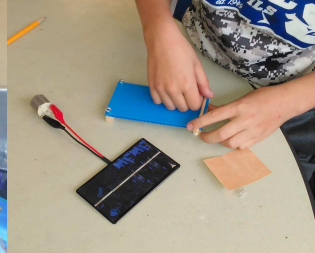
**Sound Energy
Can I get the water to rise?**



M
E
C
H
A
N
I
C
A
L



**Making
our solar
cars**

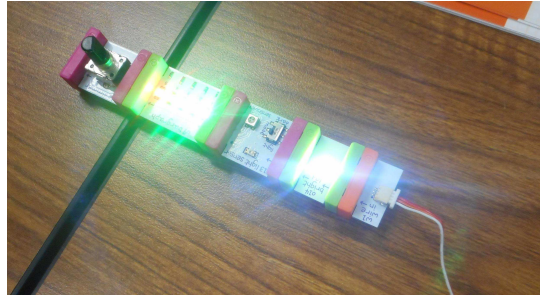


Open and Closed Circuits, Chemical Energy, Electricity at Work



Our Rockets. Chemical Energy

Little Bit Circuits

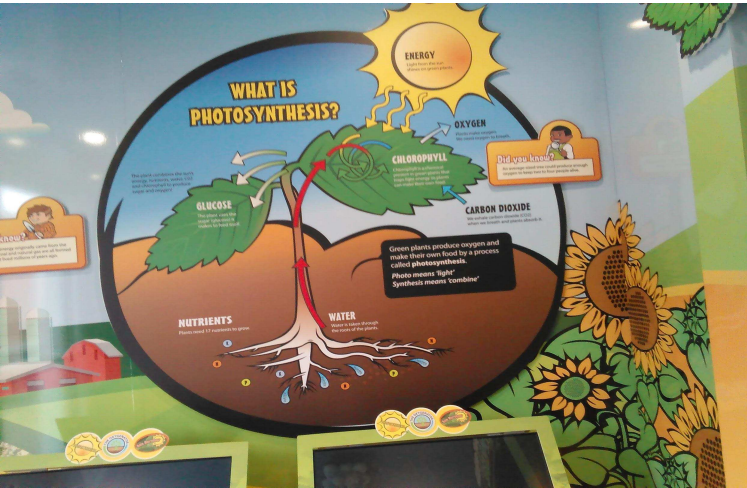


B
G
U
I
L
D
I
N
G
F
O
R



Seed Survivor from Canada

Our advisor arranged for the seed survivor to visit our school. Inside we see photosynthesis, soil, chemical energy, decomposers, the water cycle and a model of a town that has solar panels,, windmills, and dams for hydropower. We also saw what is thrown in the garbage can that should be placed in the compost. We played computer games that demonstrated all the things we saw.



Nature's Recyclers

We went to Lone Oaks and got to look under and in the logs for nature's recyclers. We found centipedes, millipedes and beetles. No animals were hurt and all sites restored as close to its previous state as possible.



Reduce, Reuse Recycle.

Keep our water clean. Testing a local water source for its state of health.



Oil Spill

How do we clean it up?



REDUCE

Goal#2: To promote energy conservation by reducing the amount of energy used.

Activities and Tasks: Obtain permission from the principal, consult with our advisor, do school energy audit, present findings to principal, write letter for parents, send home energy conservation survey (STAR), obtain energy kits, send home energy kits, collect data from home energy kits.

Energy Content and Resources: NEED Energy Audit Kit, STAR survey, NEED Home Energy Conservation Kits. Renewable resources.

Student Leadership: 8 students conducted school audit, 3 wrote parent letters, 10 passed out parent letters and survey, 10 sent home energy conservation kits, 10 collected and analyzed data, **Evaluation:** Our students are utilizing our refillable water bottle water fountains saving on the use of plastics. We are still using our solar panels to run hour hydroponics. Home energy usage has been reduced. 390 students are affected by the panels, 390 surveys went home, and 75 letters went home. We had 10 parents participate in the home energy conservation kits. Over 30.000 people reached via media, newspapers and letters.

Now in schools all over the county.

Over 8000 refills per fountain.



Reuse

Goal#3: To promote the reuse of items

Activities and Tasks: Obtain permission from principal and advisor, contact waste management director, save milk and juice cartons, place article in newspaper, send home letters, collect jeans, count and find a place to donate jeans, deliver jeans, plan farm day, obtain volunteers to help.

Energy Content and Resources: Promote recycling, energy conservation, local farmers and volunteers.

Providing events like Pickwick Electric and electric safety, puffy stuff biodegradable packaging material, reusing milk cartons for planting, and biodegradable containers for flower seeds.

Student Leadership: 4 students talked to principal and advisor. We all help planned farm day and blue jean drive with dividing task. 4 students helped deliver jeans, we all help empty recycled containers.

Evaluation: We collected over 400 pairs of jeans, farm day was a great success and enjoyed by all with recycled milk cartons and many other sustainable products. Approximately 40,000 or more reached through newspaper, media and Ag websites.



Teens for Jeans

Reusing new or slightly used jeans for the homeless. Our students and community donated over 425. We donated them to a local distribution center



Teens for Jeans

Collecting Jeans for Youth Experiencing Homelessness for National Teens for Jeans Campaign

The Energizers (Michie Elem. School Energy Club) are collecting jeans for Teens for Jeans, a national campaign. Teens for Jeans encourages young people across the country to run a jeans drive in their school or community to help provide clothing for youth experiencing homelessness.

Over a million young people experience homelessness in the United States every year and one of the most requested items for young people in homeless shelters is a pair of jeans. In the past eight years, young people across the country have collected over 5 million pairs of jeans through Teens for

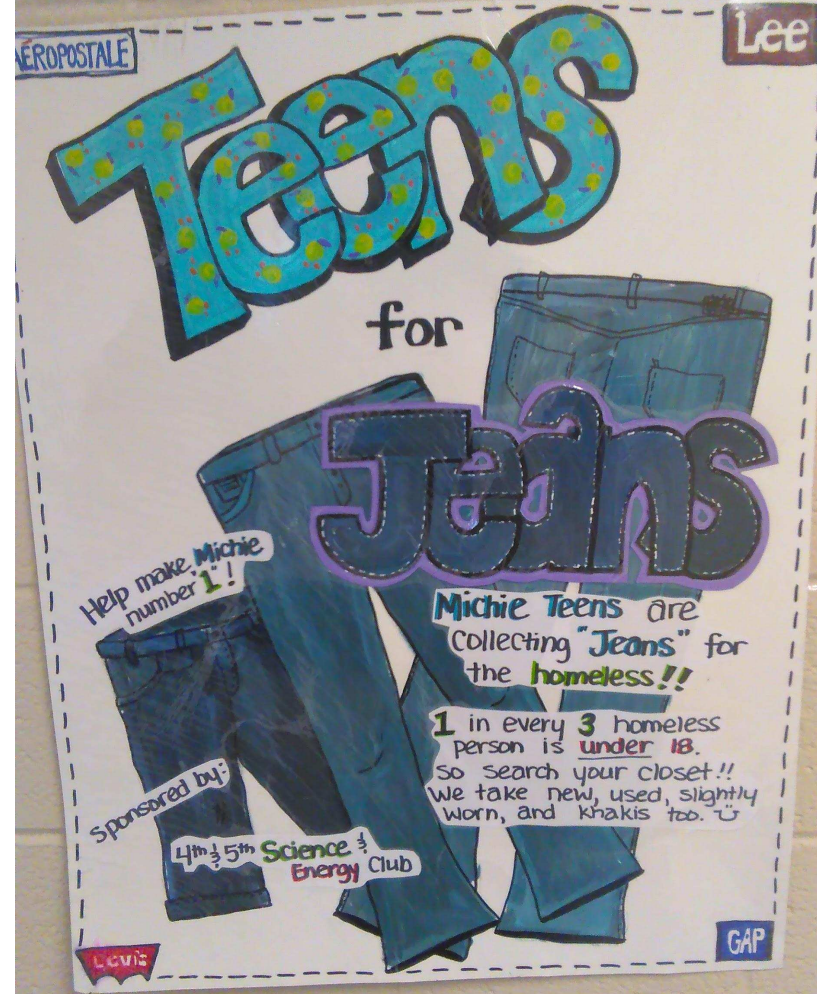
Jeans. The Energizers Club has participated for the last three years and has collected several hundred pairs of jeans. Our goal this year is to collect more than 8000 pairs of jeans. Please help us reach our goal. We can conserve energy by reusing jeans and help other people at the same time.

Members of the community, county, and school can support the Energizers by dropping off their gently used denim at Michie Elementary School, located on Highway 57 East, until Feb. 25th.

These jeans can be any size from baby to adult. They will also accept khaki pants. The jeans can be pants or shorts. If you have any questions please contact the sponsor, Ms. Steen at Michie School, 731-632-3602.

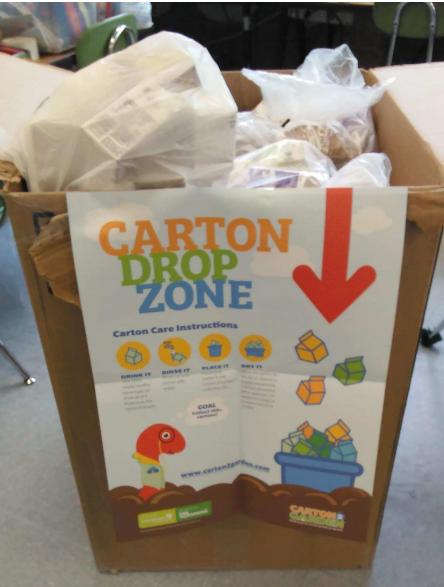


J
D
E
R
A
N
O
P
O
F
F



Milk to Carton and Carton to Garden Contest

We collected milk cartons and made a model of our favorite sports symbol. We chose a football field. This year we ask each K-6th grade student to collect milk cartons for our field day. Each student would decorate one carton to plant their tomato plant, and the other cartons were used for the 5th grade to plant cucumber plants for the students to take home on Farm Day. We collected over 1000 milk cartons.



Farm Day is now an annual event with emphasis on farming and recycling. Students in K-6 collected at least two milk cartons and decorated one of them. Reusing these cartons as a container to plant tomato plants. The rest collected were used to plant cucumbers for students to take home. There is also a booth with puffy stuff that the Energizers run that is biodegradable and made out of milo plants manufactured in the state of Tennessee.

Filling boxes with soil.



Bees



Edible Soil



Story about plants



Puffy Stuff

RECYCLE

Goal#4 To promote recycling at home, school and the community.

Activities and Tasks: Obtain permission from principal, contact our county waste management director, enter the recycling contest, hold a Go Green Recycling pep rally, send notes home, enter the aluminum can recycling contest and the Milk Carton Contest both the favorite sports and reuse for garden purposes.

Energy Content and Resources: Renewable resources, promote energy conservation,

Student Leadership: 10 students folded parent letters, 1 student contacted newspaper, 10 students advertised on Michie News, 15 students conducted the Go Green Recycle Pep Rally,

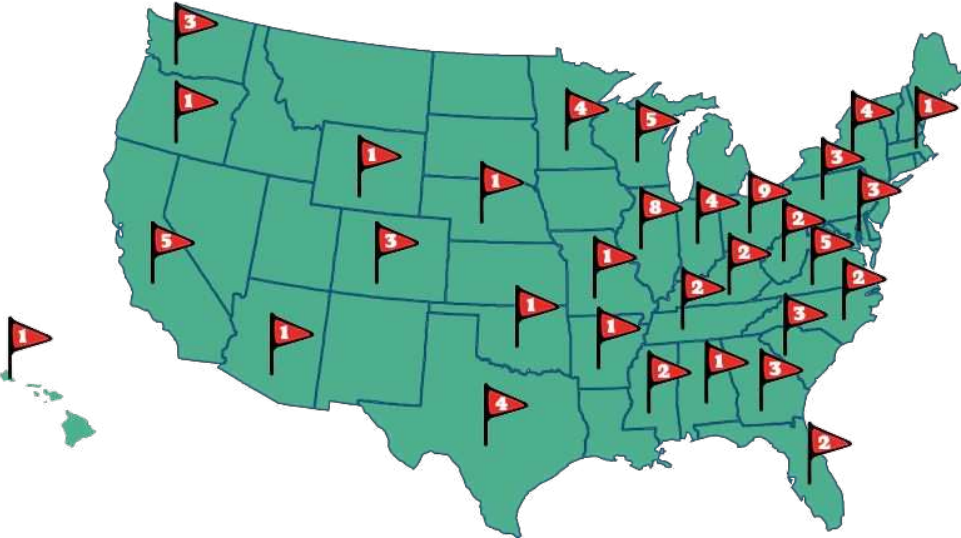
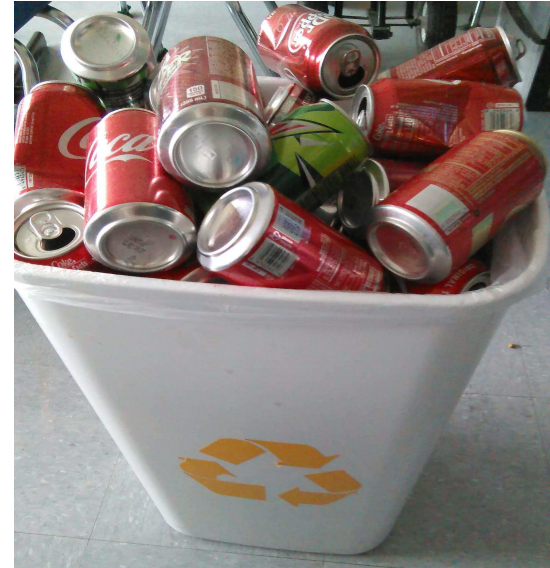
Evaluation: We were nominated for the Good Sports Always Recycle but did not place. We also were nominated for the Governor's Environmental Stewardship Award and are awaiting results. We held an America Recycles day in November. We participated in the community division of the Keep America Beautiful Recycle Bowl and in the Al the Can Roundup with over 80,000 reached



Recycling Aluminium Cans

We received second place for the year 2016 and were at the top in 2017 . We are getting our totals together now for 2018. So far we have over 3589 pounds and are waiting for the final total.

We are looking for #1.



Keep America Beautiful Recycling Bowl

We participated in the Community Division of the recycling bowl competition. We had a total of over 283,000 pounds of recycling for the middle of Oct. to the middle of Nov. We placed ads in the paper, stuffed the water bills with recycling information, held a recycle day for recycle month and started it all off with a Recycle-Go Green Pep Rally. We got a phone call that we are at the top of the list but we don't know where yet. People from all over the county got behind our competition.



Michie Elementary needs your recycling!!!

Recycling Special Project

RECYCLE BOWL COMPETITION

Michie Elementary is competing in the Recycle Bowl again this year. Last year we placed 3rd in the Nation, this year we want to win!!!!

You can help by bringing your recycling to the recycling trailer behind the school (available 24 hours) and/or Michie City Hall (8:00 a.m. - 4:30 p.m. weekdays).

The competition starts October 20th and ends November 15th

Items that can be recycled are....

- Cardboard** - All cardboard items
- Paper** - Please make sure paper is banded. No loose paper.
- Plastics** - All plastics #1 and up
- Glass** - No windshields
- Metal** - Aluminum, tin and all mixed metals
- Electronics** - Computers, calculators, printers, copiers, No TVs
- Appliances** - All appliances

No wood items, televisions, styrofoam or windshields please.

If you have any questions about what can or cannot be recycled please call 731-645-5909.

Dear Parents and Community,

Michie School and Michie Community has been entered into the Keep America Beautiful Recycling Bowl Competition. The competition run from October 16th-Nov. 15th 2017. We have been second in the Nation for the Community division for the last two years. We are trying to get first place. We need your help. Let's come together as a community and show the world that Michie can make a difference in the world.

To do this we need to recycle all that we can and bring it to the recycling trailer that is at the back of Michie School. There may be one or 22 in Michie but I haven't been told where they are going to put the second trailer yet. On the back of this sheet you will find a list of the things that be recycled. Items do not have to be sorted. All paper items need to be placed in a plastic bag so they will not get wet. Please no trash. Nothing a lot of food etc, wood, styrofoam, TV's, or tires. Electronics, large appliances can be placed in the trailers.

We will also collect aluminum cans for recycling and they can be put the trailer or in front of the green house by the school. We can count the toward two recycling competitions. Please place cans in plastic bags for handling purposes. You may also have them weighed and bring the we slip to school to my attention and they can be counted toward our recycle goal. We need over 250,000 lbs during this month at least.

Teens for Jeans

One in every three homeless person is under the age of 18. "Teens for is a service project being sponsored by the 4th and 5th grades too. Sera closet and find the jeans that you can no longer use and bring them to The jeans can be new or used and any size. You can also bring khakis. These will also be weighed and counted toward our recycling bowl.

Thank you for participating. Let's make Michie number one

The Energizers (4th and 5th grade Science and Energy Club)

REDUCE! REUSE! RECYCLE!
NOVEMBER 14, 2017
MICHIE RECYCLES DAY

Our recycling competition is drawing to a close. The last day to bring recyclables is Nov. 15th.

Let's bring in all our recycling and finish this month long competition with a bang.

There will be a trailer in front of the school located toward the Civic Center on Nov. 14 from 3:30-5:30.

Prizes will be given throughout this time period for anyone who drops off their recycling. Let's fill this trailer to the brim.

Michie School and the Michie Community want to be Number 1.

Prizes! Prizes! Prizes! Prizes!

 **KEEP TENNESSEE Beautiful**

1st Place Community Division Winner

Keep Tennessee Beautiful awards

MICHIE ELEMENTARY SCHOOL

this certificate of appreciation recognizes Outstanding Service the mission and vision of Keep America Beautiful

The Energizers have had a good year and are already looking to next year. Awaiting several results from nominations and contest, and the help we give the county with the education component of our program being used for a part of our county Green Rating, our Michie School News on You Tube, news paper articles in three area newspapers and their websites , notes we send home from school, and word of mouth we have reached tens of thousands of people. Our recycling program has increased the amount that is recycled to the extent that they have to empty our recycle trailer sometimes twice a week but at least once a week. We have plans to place another recycle trailer because of the interest in recycling. We hope to keep building our program next year.

Resources:

NEED Elementary Poll

NEED Energy Works

NEED Home Energy Kits

NEED Energy Audit Kits

NEED Energy Books and online resources

State of TN Energy Camp NEED Activities