

Suter Energy Savers

A.K. Suter Elementary

Reduce, Reuse, Recycle – It's all about Energy!

This year we started with the basics and a deep dive into the NEED website. We used many NEED lesson plans and activities, ordered hands-on projects from Amazon, and had parents send in items for us to investigate with. We used lots of different kinds of activities to try and really hit home about energy and energy conservation. We also ventured outside our comfort zone and invited 5th graders to teach us about circuits and magnets. We even got Mrs. Pate to make a special appearance to teach us about wind energy and make wind turbines.

We also continued our tradition of community education too. Again, we decorated drink holders for our friends at Starbucks and grocery bags for our local grocery stores, Apple Market and Publix, with energy conservation pleas and made bookmarks for our local library. We constantly strive to educate more and more people on energy and energy conservation, and especially recycling!

Goal 1: Increase student awareness of alternate energy sources.

Energy Content Activities:

1. Miss Bradley will teach her class about different energy sources.
2. Students will participate in hands-on activities using NEED resources.
3. Students will work together in small groups to conduct investigations and participate in activities.
4. Parents will assist in student learning.

Student Leadership:

1. Students will participate and assist each other in small groups and individual activities.

Resources:

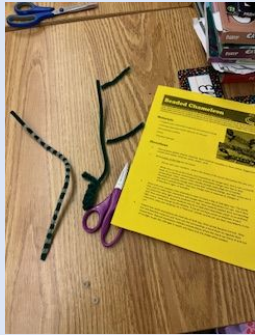
NEED Solar Energy Kit, Energy from the Sun workbooks, Wonders of the Wind workbooks, NEED Facebook page, Need Science of Energy workbooks, NEED Energy Games, NEED Renewable and Nonrenewable Resources poster, Need Sidekicks, Wonders of Magnets workbook pages

Evaluation:

Class discussions after activities, NEED workbook pages turned in, posters made by students, outcome of activities and investigations, NEED evaluations, student cooperation and interest in activities.

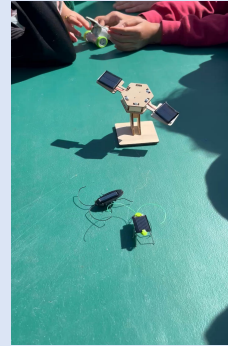


Is he cute
or what?!

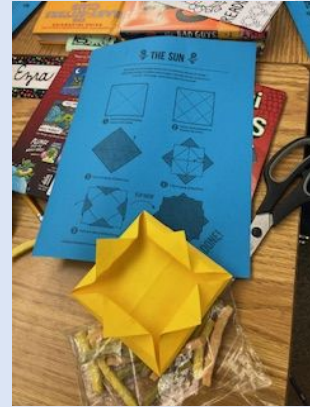


Solar Energy

This year we learned quite a bit about solar energy. We experimented with UV beads bracelets, made UV bead chameleons, made some solar origami, and put together several solar powered gadgets.



Our solar cockroach
and grasshopper were
so fun to watch!



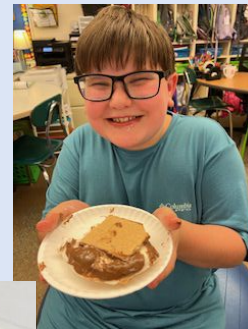


We used
lots of
NEED
curriculum
resources
this year!



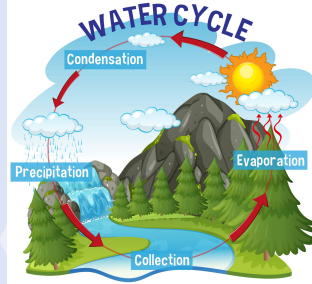
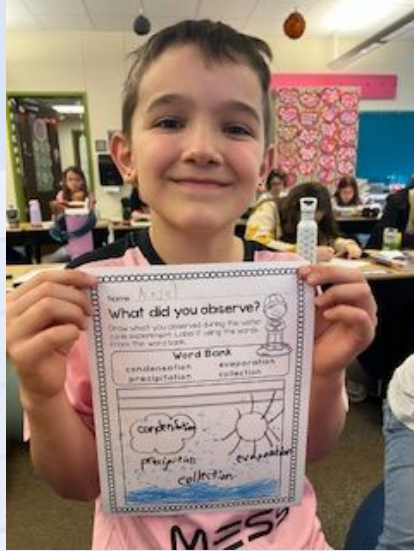
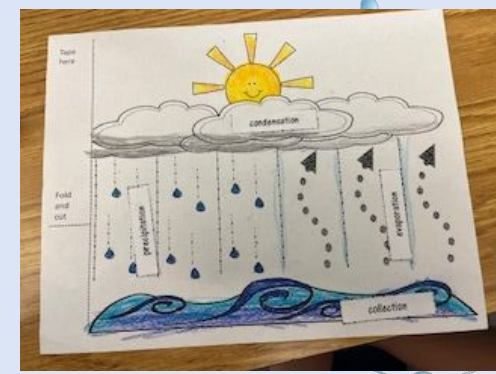
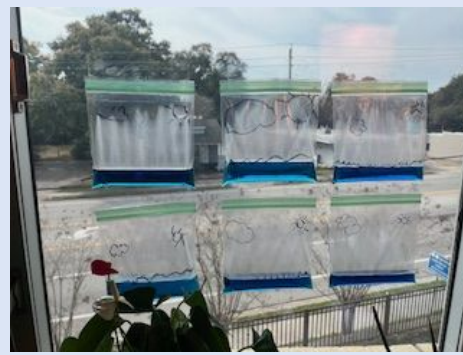
Ready to go in
the sun!

SOLAR OVENS



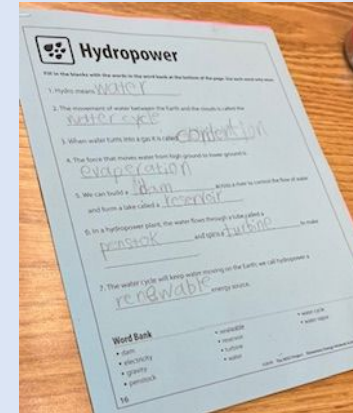
**SO
GOOD**

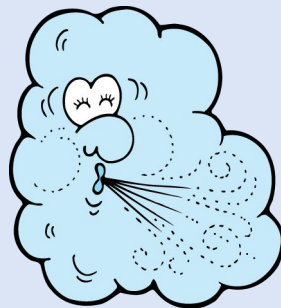
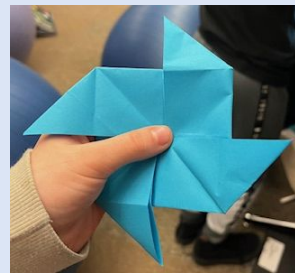
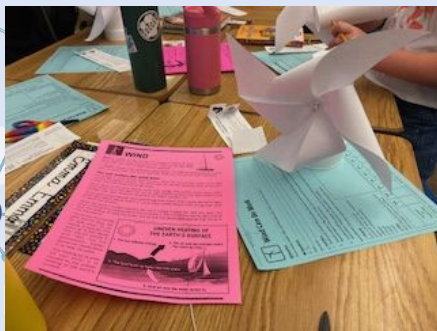




Water Energy

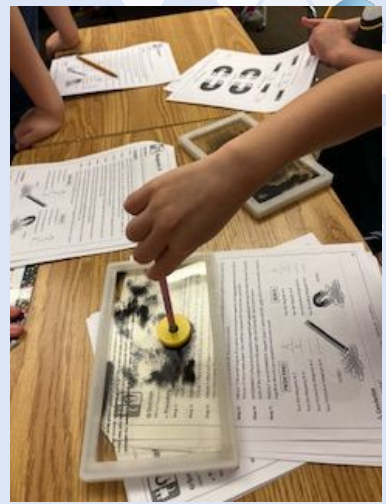
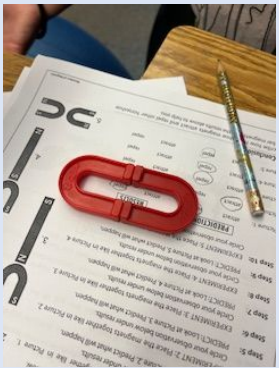
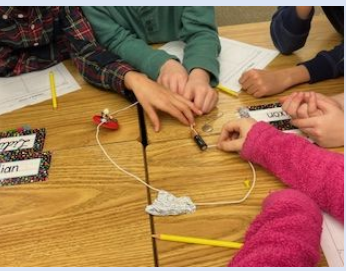
This year we tried something new and studied the water cycle. We made paper plate water cycles, wind sock water cycles, and water cycles in a bag. We even made a cloud in a jar simulation. Thanks to NEED for all of the wonderful ideas!





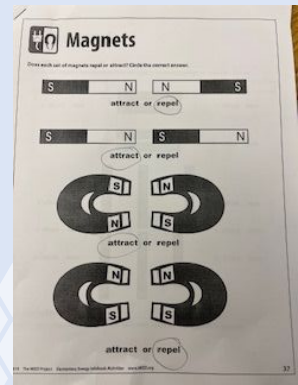
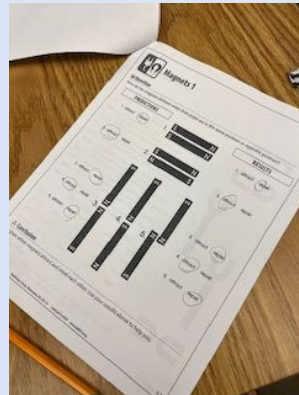
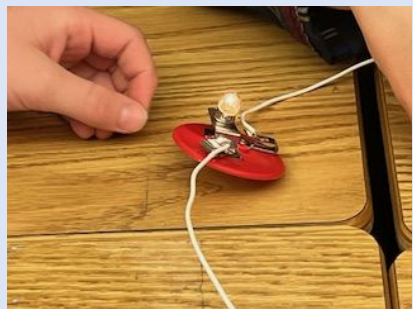
Wind Energy

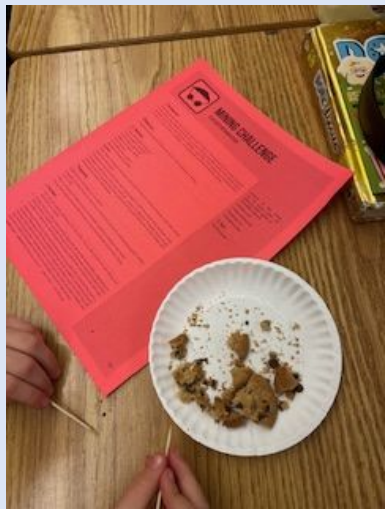
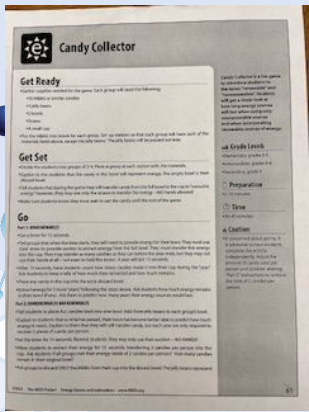
We had a special surprise this year with visit from Mrs. Pate! She came in to teach us about how wind can do work. Using the NEED activity, we made wind turbines that would bring up a paper clip when it turned. We also made some wind origami!



Circuits and Magnets!

Teaching about circuits was outside of my comfort zone so I invited our gifted 5th grade class to come in and teach us about circuits. We learned about open circuits, closed circuits and had a brief tutorial on parallel circuits. We loved learning about magnets! We couldn't get enough of them! Again, a big thanks to NEED for the activities!





Renewable & Nonrenewable resources

Candy Collector is always a big hit when talking about resources. The kids can really see why we need to use more renewable resources.

This year we did cookie mining too! Getting those chocolate chips out was difficult. This helped us see why we need to protect our lands.



Goal 2: Increase community awareness by sharing what we've learned.

Energy Content Activities:

1. Decorate “Energy Savers” grocery bags for Apple Market and Publix.
2. Decorate hot/cold sleeves for Starbucks.
3. Decorate bookmarks for our local public library.

Student Leadership:

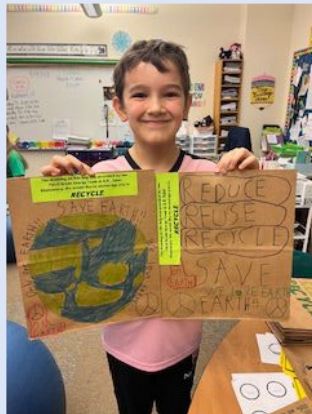
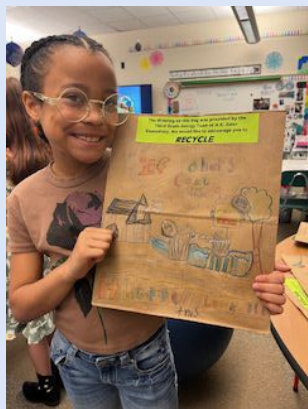
1. Students took lead role in activities and investigations.
2. Students educated their families and involved them in activities.

Resources:

NEED Solar Energy Kit, Energy from the Sun workbooks, Wonders of the Wind workbooks, NEED Facebook page, Need Science of Energy workbooks, NEED Energy Games, NEED Renewable and Nonrenewable Resources poster, Need Sidekicks, Wonders of Magnets workbook pages

Evaluation:

Class discussions after activities, NEED workbook pages turned in, posters made by students, outcome of activities and investigations, NEED evaluations, student cooperation and interest in activities.

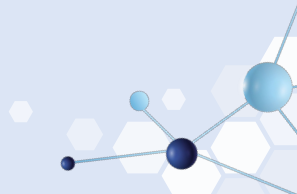


Publix and Apple Market loved the bags that we decorated for them with message of reduce, reuse and recycle!





We continued our tradition of decorating drink holders for our local Starbucks and making bookmarks for the children's section of our local public library. We wanted to teach other kids that they can help recycle too!

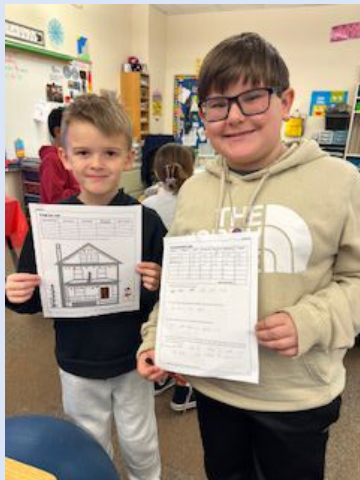


Our Team!



Decoration Budget Basics

This was a challenging activity for us. We really wanted all of the decorations for our houses!



We had a great year learning all about energy!
Thank you N.E.E.D.!!



Sidekicks!

These are always a big hit!!

