

Suitland Elementary
Energy Awareness
Advisor: Adebisi Babayemi

The Student Green Team Members spent several sessions learning about Energy. The introduction started with an Energy Sources Chant, followed by other projects including Energy Audit, Energy Fair, Energy Games, Science of Energy, and Wonders of the Sun.

GOAL #1:To Increase Students' Energy Awareness of Energy Sources

ACTIVITIES AND TASKS:

- Shared Invitation with Staff members including day and time
- 3rd to 4th grade Green Team members attended
- Accessed Energy Sources Chant from YouTube for Petroleum,
- Coal, Natural Gas, Uranium, Propane, Hydropower, Biomass, Geothermal, Wind, Solar

ENERGY CONTENT AND RESOURCES:

Energy Games and Icebreaker

Needs.org through YouTube

STUDENT LEADERSHIP

EVALUATION:

2 Students modeled for the group

11 Students participated

Pre and Post test observation-Students gained new knowledge on different energy sources.

Energy Sources Chant



Student Green Team members learned about different forms of energy. They used an energy chant to further their understanding.

GOAL #2: To learn Energy Conservation and Energy Efficiency

ACTIVITIES AND TASKS:

- Teachers selected one student per each classroom in 3rd-6th Grade
- Students met in the Library, Classroom and Boiler Room for Instruction
- An Energy Auditor facilitated the Session
- Students measured Electricity and Water Temperature
- Students used Measuring and Mentoring equipment

ENERGY CONTENT AND RESOURCES:

- NEED Monitoring and Mentoring Guide
- Thermometer, Light Meter, Kill A Watt Monitor and Meter

STUDENT LEADERSHIP:

15 student leaders participated

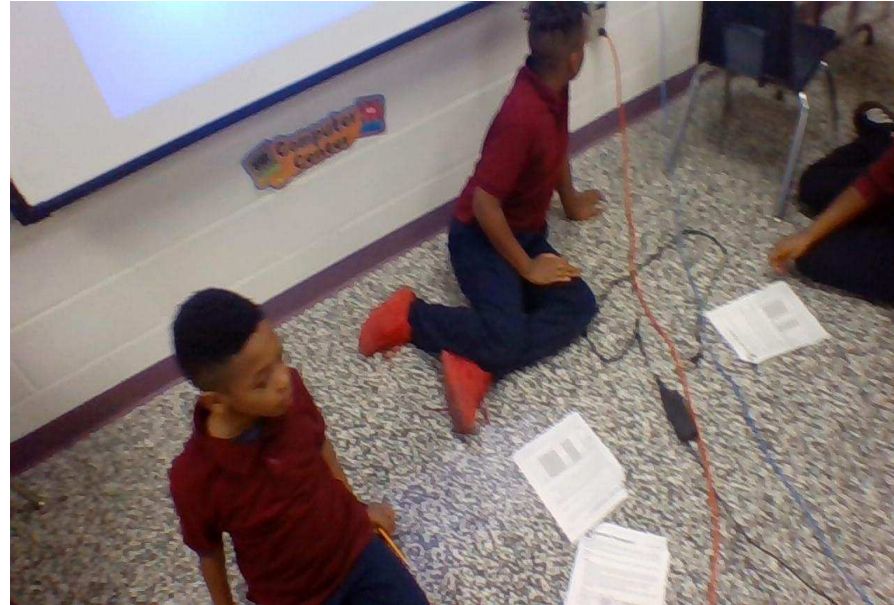
Students worked in 4 groups

EVALUATION:

Student evaluated energy use and waste at school

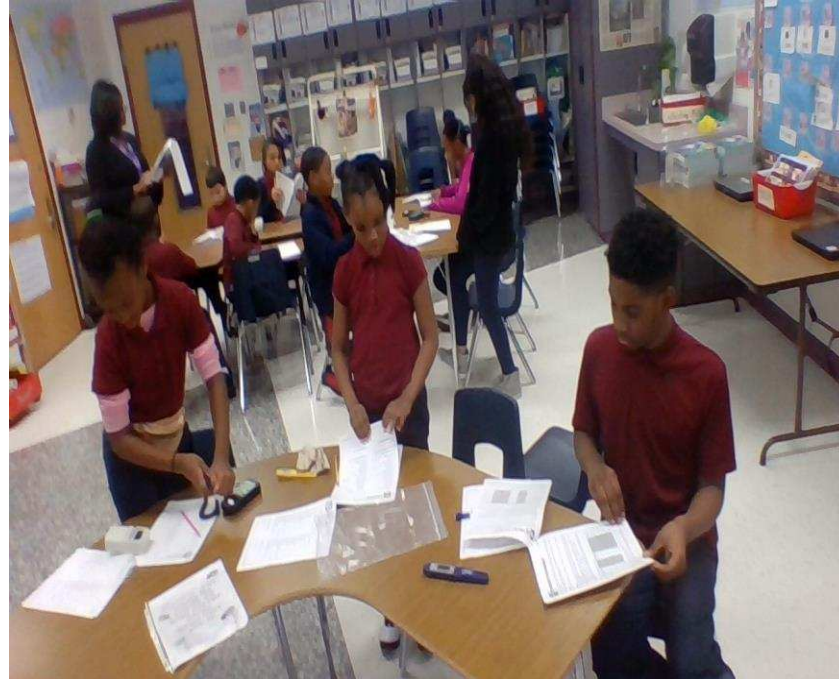
Students identified energy conservation and energy inefficiency at school

Energy Audit



The students were fully engaged and the hands-on projects were completed successfully in small groups

Energy Audit



The students were fully engaged and the hands-on projects were completed successfully in small groups. The conclusion about energy use at our school from the investigation completed, showed our water temperature is as expected but our air temperature and energy flow from our laptops are extremely higher than what is recommended.

GOAL #3: To explore Energy Sources

ACTIVITIES AND TASKS:

- Invited 40 students in K -6th Grade
- Students worked in 7 stations to complete
- Candy Collector, Energy Bumper Stumper, Build a House, Energy I Used Today, Energy Source Puzzle, Top Five

ENERGY CONTENT AND RESOURCE: NEED

- Energy Carnival, Energy Game and Icebreaker Science of Energy Guides
- NEED Energy Kits

STUDENT LEADERSHIP

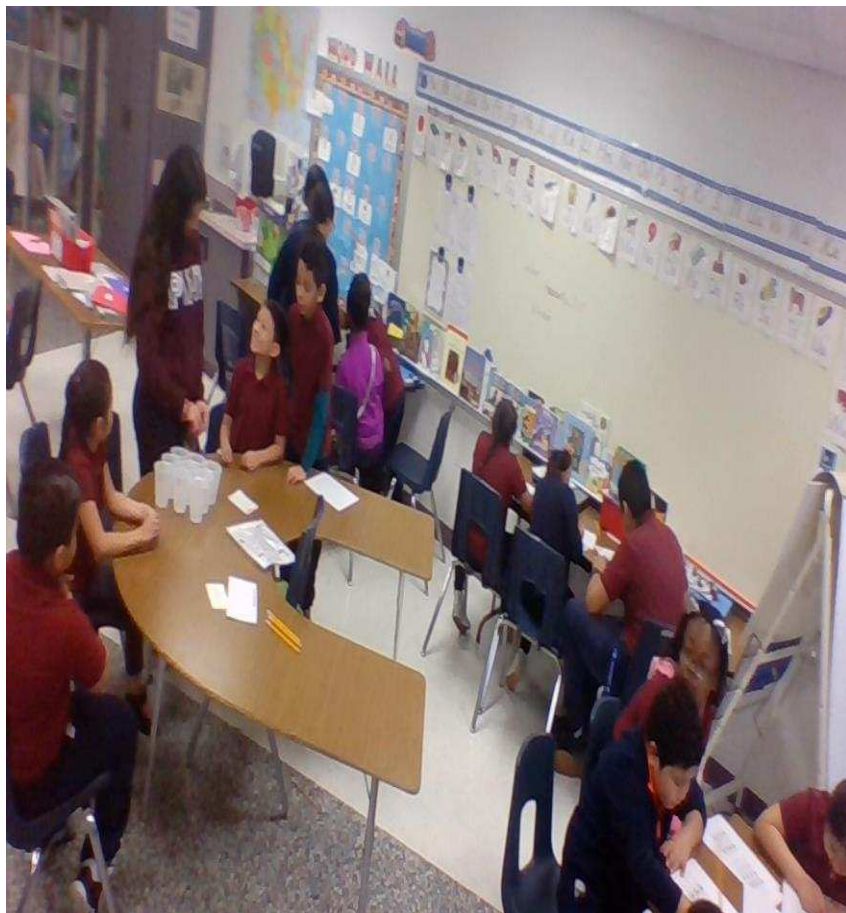
- 7 student leaders at each station
- Leaders led the stations

EVALUATION

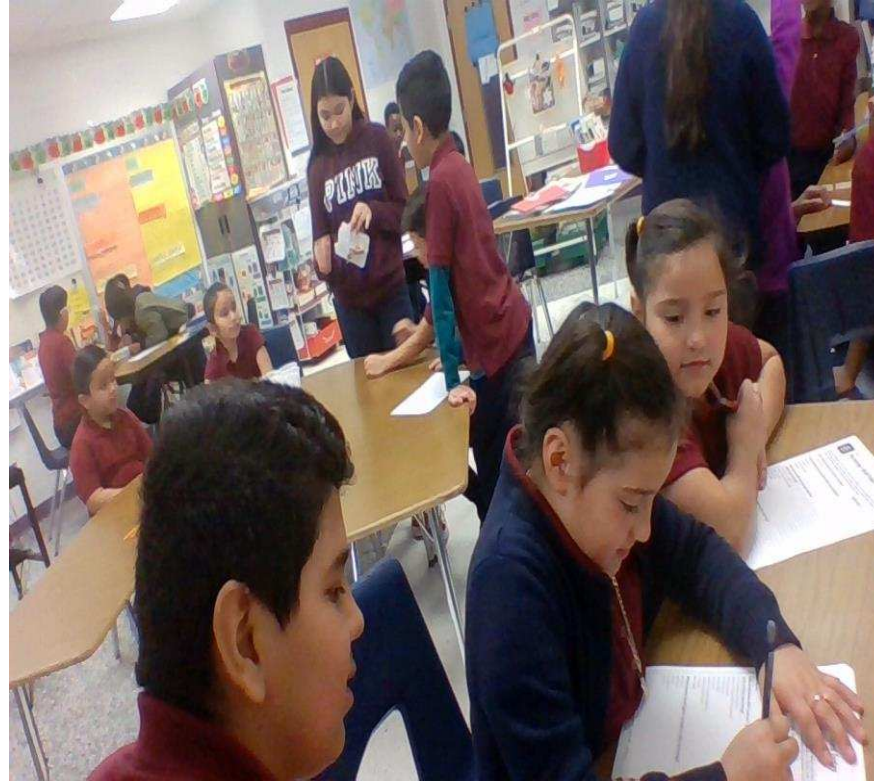
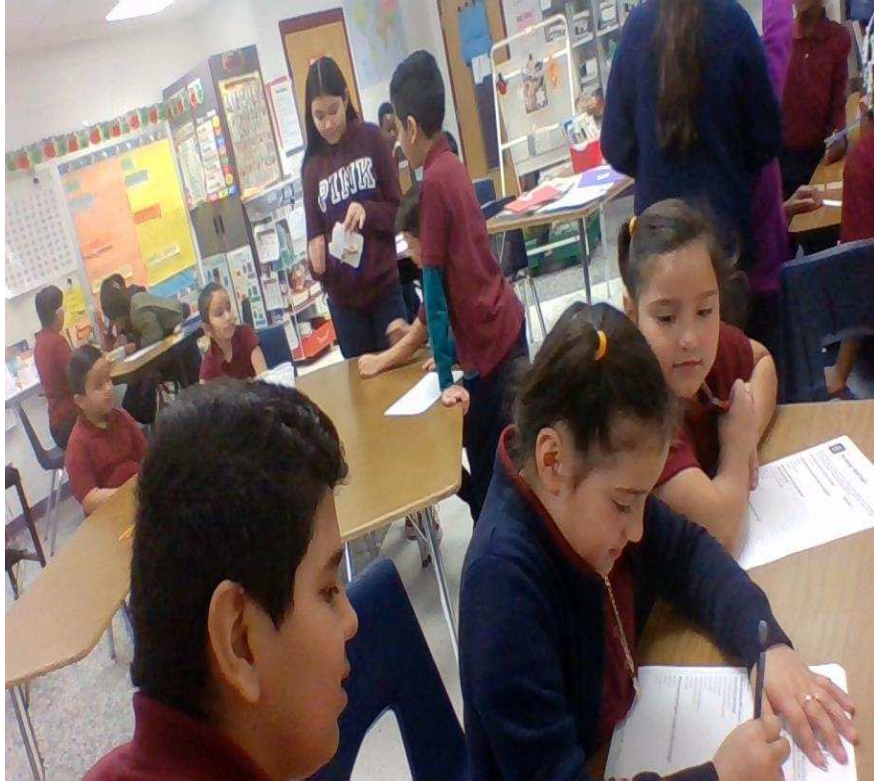
Students completed exit tickets

Responses showed new knowledge on Energy gained

Energy Sources Literacy Session



Energy Sources Literacy Session



Selected students in grades 1-6 had the opportunity to collaborate and explore seven Energy themed stations with hands-on assignments and writing tasks.

GOAL #4: To increase Energy Awareness in our Community

ACTIVITIES AND TASKS:

Student Green Team members were prepared to lead 8 stations-Candy Collector, Build a House, Energy Knockdown, Energy Source Puzzle, The Energy I Used Today, Energy Resources, Energy Bumper Stumper

ENERGY CONTENT AND RESOURCES:

NEED resources and kits for Energy Fair

BGE Energy Resources

STUDENT LEADERSHIP

16 Students led each station

EVALUATION:

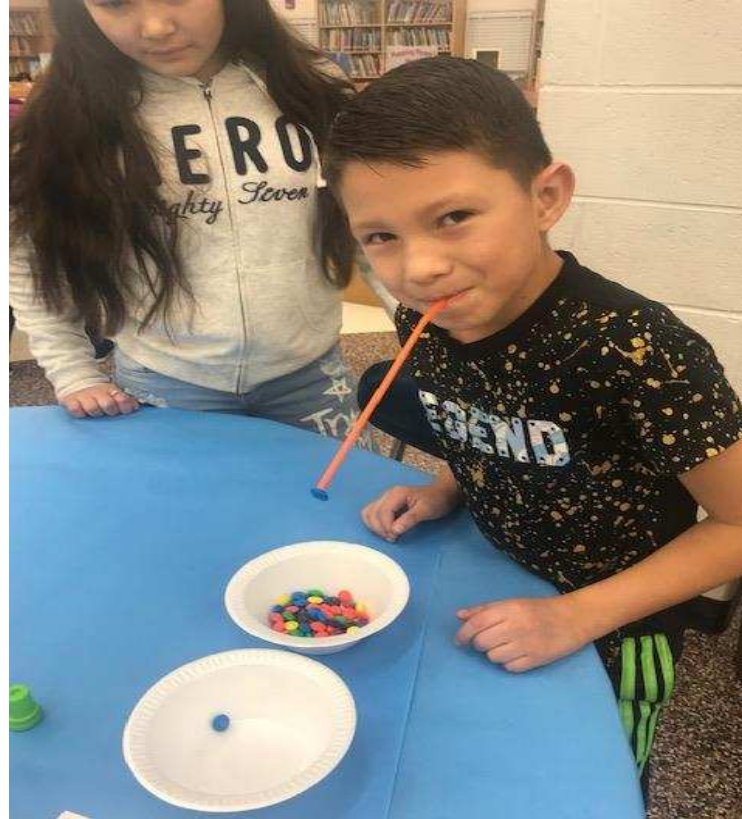
Parents and families showed that they were unaware of the various energy sources

Parents gained new knowledge

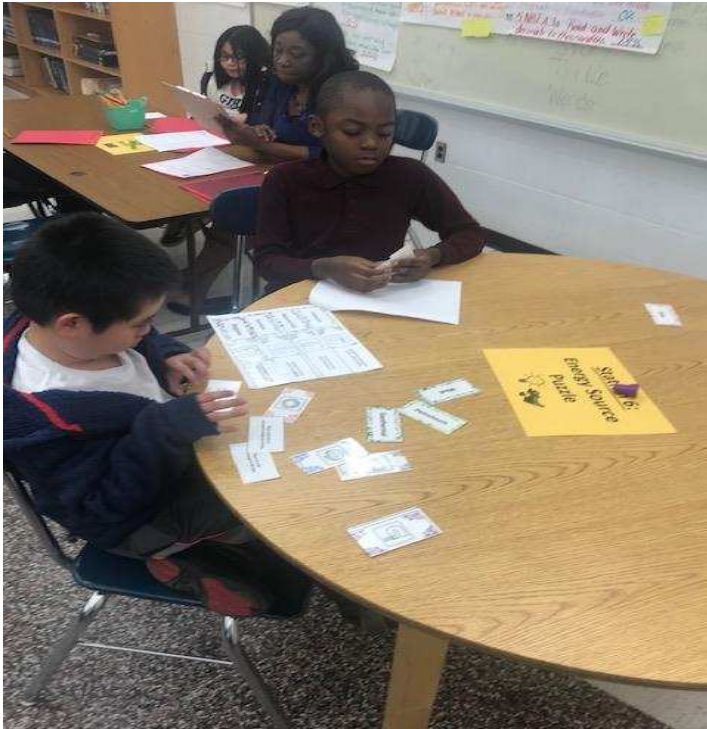
Energy Fair



Energy Fair



Energy Fair



Several students presented energy games and experiments to their peers and families. Over 60 family members attended. There were teachers present to support and monitor the presentations.

GOAL #5: To Create a Solar Oven to save Energy

ACTIVITIES AND TASKS:

- Student Green Team members in K-6th grade
- Create a 3 Solar Ovens in 3 groups
- Tested the Solar Oven

ENERGY CONTENT AND RESOURCES

- NEED Resource and Kit
- Pizza Kit
- Science Buddied Resource

STUDENT LEADERSHIP

- Ten 6th Graders led the groups

EVALUATION:

Student discovered that in order to cook with a solar oven you need adequate sun over 70 degrees Fahrenheit



Students built a Solar. They were provided a model, a video clip and directions with illustrations. They worked in three stations and they tested their ovens on a hot day by cooking some s'mores in their final products.