



Energized Kids Leading the Way!

Sponsors: Audrey Hughes & Javan Winston



Clarke Middle Science, Energy, and Adventure Team members learned energy basics throughout the year using NEED resources, taking field trips, and consulting with experts. The team hosted work days after school and on the weekends. Kids pitched in to help school employees meet needs all around campus and helped in the community at a variety of events, too!

The team taught others during the Athens Water Festival, Energy Awareness Month, and America Recycles Day events. Team members created energy and conservation films for the Ripple Effect Film Festival, created art and ornaments for local charities, and wrote poems with conservation themes. Energy Education Week offered digital and in-person experiences to students, teachers, and community members. The team hosted booths at Young Scientists Day and the Classic City STEAM Festival, plus organized Family STEM Nights at Clarke Middle and Alps Elementary. Team members conducted a school energy audit, created a conservation plan, and advocated for future energy efficient changes.

Throughout the year the team promoted energy education and natural resource protection. Energized kids led the way and made a positive difference!



Teach & Help Others

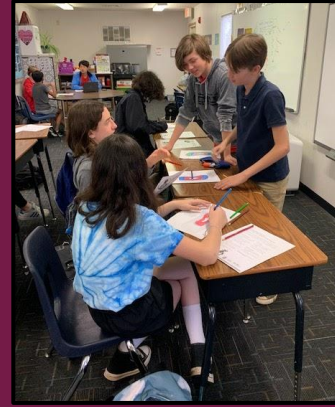
Goal #1: Educate 500 students and community members about energy during the Fall & Winter

Energy Content:

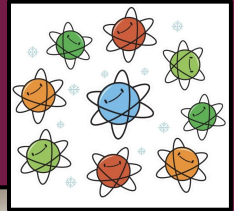
Learned using NEED resources: Science of Energy, Energy Carnival, Energy BINGO, & Energy Infobooks

Student Leadership:

- Wrote & made announcements
- Created & shared Energy Awareness Month Lessons
- Distributed digital newsletters
- Led 7 Garden Work Days at CMS
- Pitched in to help keep the campus clean all year long
- Partnered with Rivers Alive to clean local rivers
- Hosted a Family STEM Night
- Organized virtual & in-person field trips
- Coordinated guest speakers

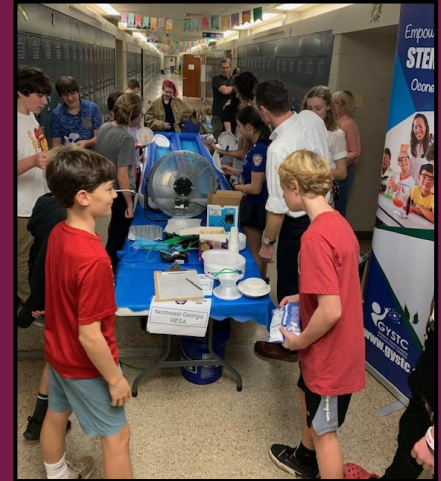


Teach & Help Others



Goal #1 Evaluation:

- Taught 676 @ Clarke Middle
- Taught 1,082 Community Members
- 22 team members learned
- Field trips for 451 students
- 1,000+ adults received e-newsletters
- 153 students volunteered at CMS



Conserve & Save Energy:

Reduce, Reuse, Recycle, Repurpose

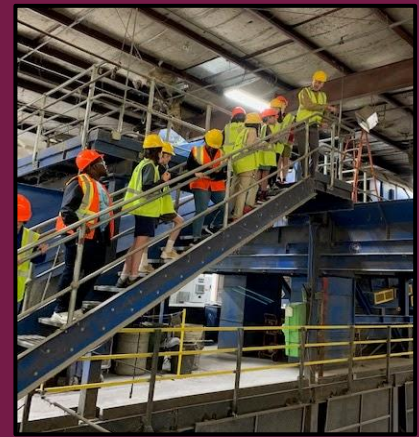
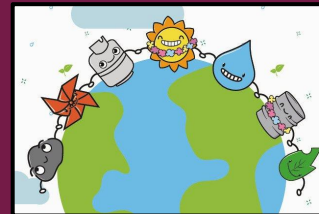
Goal #2: Conserve and save energy & resources by reducing, reusing, recycling, and repurposing

Energy Content:

- Learned how recycling saves energy by reducing industrial energy demand & fuel for transportation needs
- Studied how composting reduces waste & saves energy
- Learned how the use of water, recycling, & energy are interconnected
- Promoted the Team's Trash Hunger Campaign (items that can be recycled are collected & sold, earnings are donated to the World Wildlife Fund, the Food Bank, & UNICEF)
- Sponsored and led America Recycles Day
- Primary Resource: NEED's Science of Energy



Recycled Ornaments

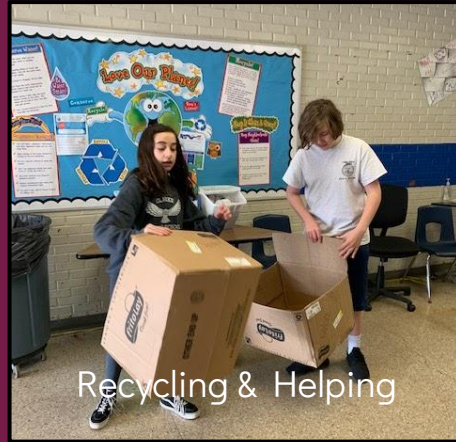


@ the Recycling Center



America Recycles Day

Conserve & Make A Difference!



Goal #2 Student Leadership:

- Recycled & shipped items for the Trash Hunger Campaign
- Made recycled ornaments and collected pet care items for the Animal Shelter
- Recycled Christmas Trees
- Composted food waste
- Facilitated lunchtime share bowls
- Educated others about what we learned
- Created bulletin boards

Evaluation:

- 1,980 people learned that recycling saves energy
- 780 students learned about the Trash Hunger Campaign
- 780 students recycled waste
- Donated \$5,560 to the World Wildlife Fund, Food Bank, & UNICEF from recycling proceeds
- Made 75 ornaments from recycled items
- Recycled 102 Christmas Trees



Grow & Cook Your Own!



Goal #3: Promote the consumption of local foods and cooking at home among Clarke Middle students to reduce transportation energy demand

Energy Content:

- Read & studied NEED's Transportation Fuels
- Learned how to grow, harvest, & prepare local foods

Student Leadership:

- Maintained the school garden & greenhouse
- Cooked with local foods
- Wrote letters to district-level nutrition staff about serving local foods in the cafeteria

Evaluation:

- Local foods are served 2x per week
- Local foods are available for lunch more often



Energy Education Week

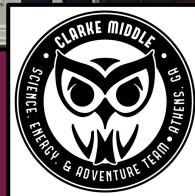
Goal #4: Educate 1,000 people about energy & energy conservation during Energy Education Week & the month of March

Energy Content:

- Used NEED's Science of Energy, Coal, & Electricity to create lessons for students in grades 6-8

Student Leadership:

- Lobbied the mayor to declare Energy Education Week in Athens
- Organized a series of field trips to the State Botanical Garden & UGarden
- Shared energy education lessons with 30 teachers & 1,100 students
- Displayed Art & Literary Works at an Art Gallery
- Shared Energy Education Week lessons all over Athens



Energy Education Week Meeting with Mayor Girtz and an Energy Education Week Proclamation!

Goal #4



Energy Education Week

Student Leadership:

- Created & taught lessons for other K-8 students
- Sent lessons to educators during the month
- Helped with maintenance tasks @ CMS
- Created & showcased conservation films at the Ripple Effect Film Festival
- Shared information about Energy Star & energy basics

Evaluation:

- Shared information with 127 adults directly
- Taught ~1,100 students in-person
- Taught at least 4,000 others in-person and remotely with student created films, art, & literary works via Athens-Clarke County Government's webpage, the Ripple Effect Film Festival, and displays at the Lyndon House Art Gallery



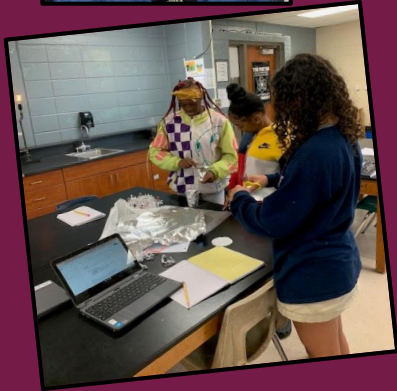


Energy Education Week

Goal #4



In-Person & Digital
Lessons + Community
Presentations!



Learning and Celebrating all week long!

**Clarke Middle School
Energy Education Week 2023**

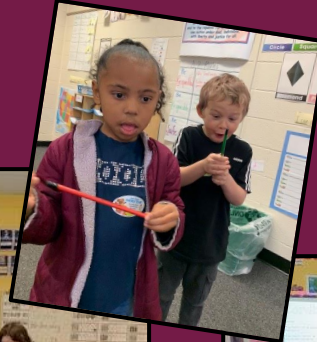
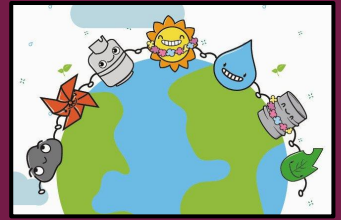
Energy Education Week = March 20-25
World Water Day = Wednesday, March 22
Earth Hour = Saturday, March 25 @ 8:30 pm

Logos and graphics include:
- NEED: Putting Energy into Education
- SAVE OUR WORLD: Smiling Earth with a heart
- NASA
- Georgia Power
- EnergyHog
- Recycle: GIVE A HOOT! RECYCLE
- EVERY DROP COUNTS: REDUCE YOUR USE
- Smiling Earth character
- Sun character with a rainbow mouth

Each image was linked to a digital Energy Education Lesson!

Goal #4

Kids Teaching Kids FUN Energy Lessons: @ Alps, Barrow, CMS, & More!





Share Energy Information!

Goal #5: Collect 250 Energy Star Pledges & share energy conservation information with 500 people

Energy Content:

- Learned energy basics, energy sources, & energy conservation information from NEED resources

Student Leadership:

- Advertised & hosted booths at these events: ACC Water Festival, Alps & Clarke Middle Family STEM Nights, Classic City STEAM Festival, Green Life Exhibition, & the Ripple Effect Film Festival
- Lobbied elected officials about Energy Education & resource conservation
- Team leader ran for County Commission with a conservation platform

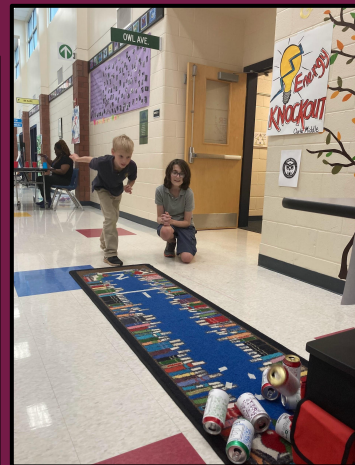
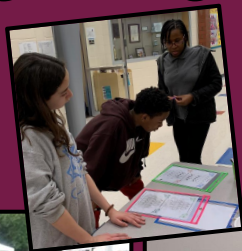
Evaluation:

- Shared information with 7,800 people
- Collected 432 Energy Star Pledges



Goal #5

Share Energy Information Everywhere!



Learn About Energy



Goal #6: Increase our energy content knowledge

Energy Content:

- Learned from NEED, Clemson, Energy Star, NASA, EIA Energy Kids, Jekyll Island 4-H Center, National Geographic, Georgia Tech, UGA, and UNICEF resources
- Learned about energy from experts visiting our school, on field trips, & virtual interviews

Student Leadership:

- Invited virtual and in-person guest speakers
- Organized and took field trips
- Extended our learning with self-selected Science & Engineering projects

Evaluation:

- Average score on the Energy Poll before instruction = 31.5
- Average score on the Energy Poll after instruction = 92.14



Energy Efficient New Clarke Middle ...Under Construction!

Goal #7: Influence officials to build a more energy efficient Clarke Middle School

Energy Content:

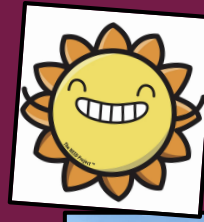
- Learned energy basics, energy sources, & energy conservation information from NEED resources

Student Leadership:

- Lobbied city leaders, school board members, district officials, & the architectural team
- Served on the Building Committee
- Collaborated with the Educational Energy Collective to get solar panels on all district schools in the future
- Conducted a school energy audit & created a conservation plan

Evaluation:

A new, energy efficient Clarke Middle School will open in 2024!





The **Science, Energy, & Adventure Team** at Clarke Middle School is an energized team of kids spreading the message of energy education, resource conservation, and the need for a more energy efficient Athens, Georgia! They roll up their sleeves and get to work helping in all the ways that they can to make the school and community better.

Energized Kids Are Leading the Way!

