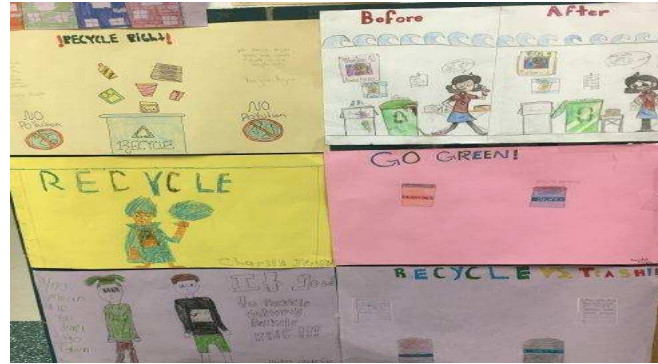


SUITLAND ELEMENTARY



PRACTICING ENERGY AWARENESS

GREEN TEAM STUDENT MEMBERS IN PREKINDERGARTEN THROUGH SIX GRADE SPENT A NUMBER OF SESSIONS LEARNING MORE ABOUT ENERGY THAN THEY ALREADY KNEW OR EXPERIENCED. THE INTRODUCTION STARTED WITH ENERGY CONSERVATION CONTRACT COMPLETION, FOLLOWED BY OBSERVATION OF SCIENCE OF ENERGY ACTIVITIES. THERE WAS A DISCUSSION ON ENERGY CONSERVATION AND RENEWABLE AND NONRENEWABLE SOURCES. NEXT, THE SUBJECT OF RECYCLING TO SAVE NATURAL RESOURCES IS PRACTICED AND DEPICTED. THEN, THEY DIVED INTO ENERGY CONSUMPTION, CONSERVATION AND EFFICIENCY EXPERIENCE. FINALLY, THEY USED VARIOUS MANAGEMENT TOOLS TO COLLECT DATA ON ENERGY USAGE.

Advisor: Adebisi Babayemi

GOAL #1: TO ADVANCE STUDENTS' ENERGY AWARENESS

ACTIVITIES AND TASKS:

- Shared Invitation with Staff members on event date and time
- 3rd -6th grade Green Team members attended
- Students shared their knowledge on Energy and they were introduced to the activity goal
- Students completed rated their Family Energy Use and an Energy Conservation Contract

ENERGY CONTENT AND RESOURCE:

Energy Conservation Contract

STUDENT LEADERSHIP:

30 Students participated

Students were in 4 groups

EVALUATION:

2 Adults made observations on their responses

Students made self assessments on their Energy Use at Home

Energy Conservation Contract Completed



Student Green Team members in 3-6th grade completed their Household Rating Guide and Contract, then they were assigned the task of committing and practicing Energy conservation at home with their families. In addition, they were to return later in the year to determine and rate ways they saved energy .

GOAL #2: TO LEARN FORMS OF ENERGY

ACTIVITIES AND TASKS:

- Teachers selected one student per each classroom in PreK-6th Grade
- Students identified Potential and Kinetic Energy by shaking jars with sand
- Student experimented with hand-held flash lights
- Students had a discussion on other forms of Energy

ENERGY CONTENT AND RESOURCES:

- Teacher Demonstration(Science of Energy Kit)
- Energy in Motion(Forms of Energy)

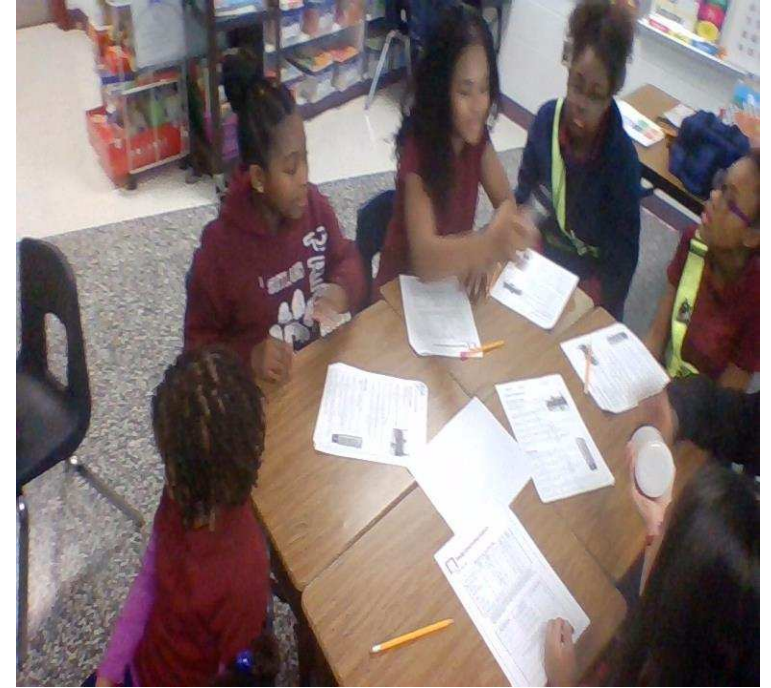
STUDENT LEADERSHIP:

30 student leaders participated
Students worked in 4 groups

EVALUATION:

Student observed Forms of Energy
Teacher identified students' knowledge on Forms of Energy

STUDENTS IDENTIFIED FORMS OF ENERGY



Students experienced and identified Potential and Kinetic Energy from the effect of the shaking jars with sand and a hand-held flash light which they experimented with and tried. Students gained further knowledge about Nuclear, Radiant, Chemical, Electrical, Motion, Gravitational, Sound, and Thermal Energy.

GOAL #3: TO GAIN MORE KNOWLEDGE ENERGY CONSERVATION

ACTIVITIES AND TASKS:

- Invited 20 students in K -5th Grade
- Students watched a video on Energy Conservation
- Students identified Energy Sources

ENERGY CONTENT AND RESOURCE:

- Energy Sidekicks Renewable and Non Renewable Chart-The 10 Energy Sources
- Energy Conservation for Kids-YouTube

STUDENT LEADERSHIP

- Intermediate students supported primary students with their responses

EVALUATION

Students completed verbal exit tickets by identifying an energy source

Students responses showed new knowledge gained on Energy Conservation

Energy Conservation and Energy Sources



Students were introduced to Energy Conservation and Energy sources was discussed. They watched an Energy Conservation for Kids video and they shared what they know about conserving Energy and they became more informed on Coal, Natural Gas, Uranium, Propane, Hydropower, Biomass, Geothermal, Wind, Solar Energy sources than before.

GOAL #4:RECYCLE TO SAVE NATURAL RESOURCES

ACTIVITIES AND TASKS:

- Students in K-6th grade created Recycling posters
- Student expressed ways they recycle and how we should recycle at home and at school

ENERGY CONTENT AND RESOURCES:

Museum of Solid Waste and Energy

Prince George's County Public Schools(PGCPS)Recycling News

STUDENT LEADERSHIP

70 Students participated

Posters displayed around the school building

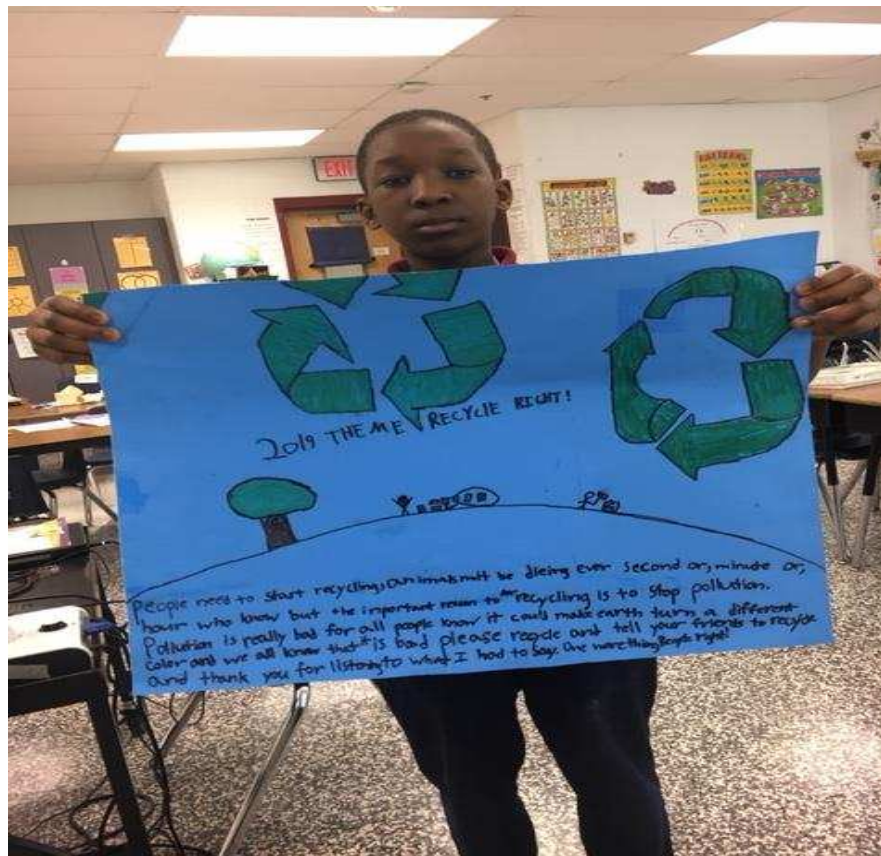
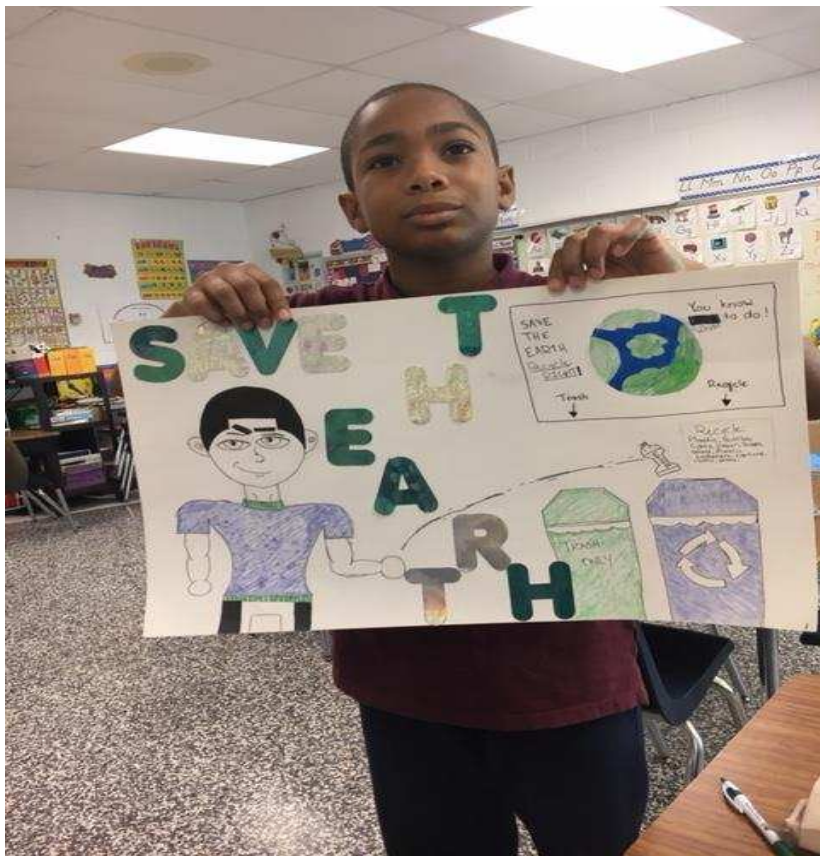
5 Students participated in PGC Countywide Recycling Contest

EVALUATION:

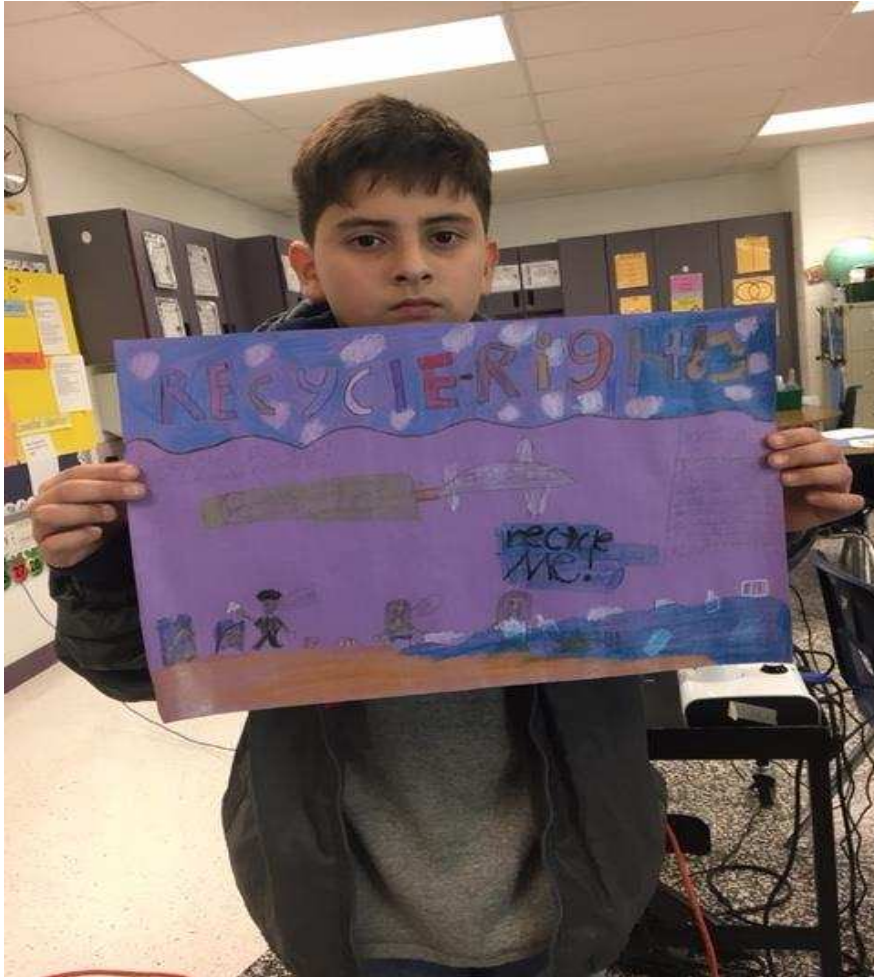
Students expressed their recycling ideas through drawing and illustration

Other students, staff and parents gained recycling ideas and reminders from the posters displayed around the building.

Recycling at School and in the Community



Students in 6th Grade created posters with the title, Recycle Right. Their work was submitted to PGCPs Recycling Contest.



Student in 5th Grade created Recycling poster, titled Recycle Right and it was entered in the PGCPS Recycling Competition.



Students in 3th Grade illustrated Recycling Right, on posters, and they were entered in the PGCPS Recycling Contest.

GOAL #5: EXPLORE ENERGY CONSERVATION AND ENERGY EFFICIENCY AND THEIR MONITORING TOOLS

ACTIVITIES AND TASKS:

- One student per classroom in 3rd-6th Grade
- Students worked in the Library, Classroom and Boiler Room
- An Energy Auditor led the session
- Students measured the school's Electricity in use and current Water Temperature
- Students applied Measuring and Mentoring equipment

ENERGY CONTENT AND RESOURCES:

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

STUDENT LEADERSHIP:

- 15 student leaders participated
- 6th Graders guided each group
- Students worked in 4 groups

EVALUATION:

Student evaluated energy use and waste at school based on the rooms available
Students identified energy conservation and energy inefficiency at school

School's Energy Audit Session



The students expressed their prior knowledge and they applied critical thinking and addition strategies as they calculated the numbers of florescent tube light bulbs in the Library.



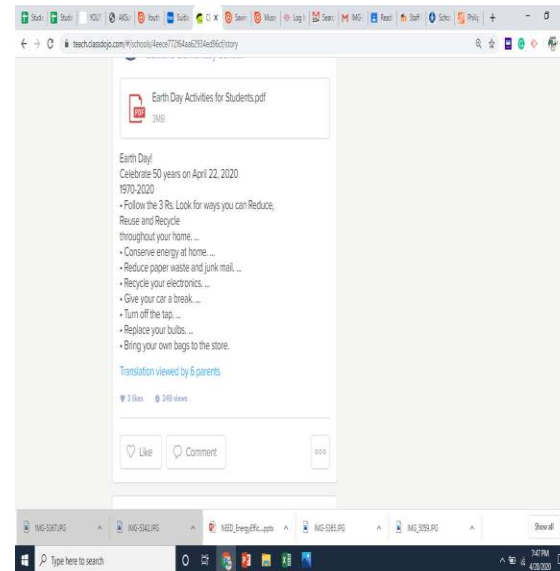
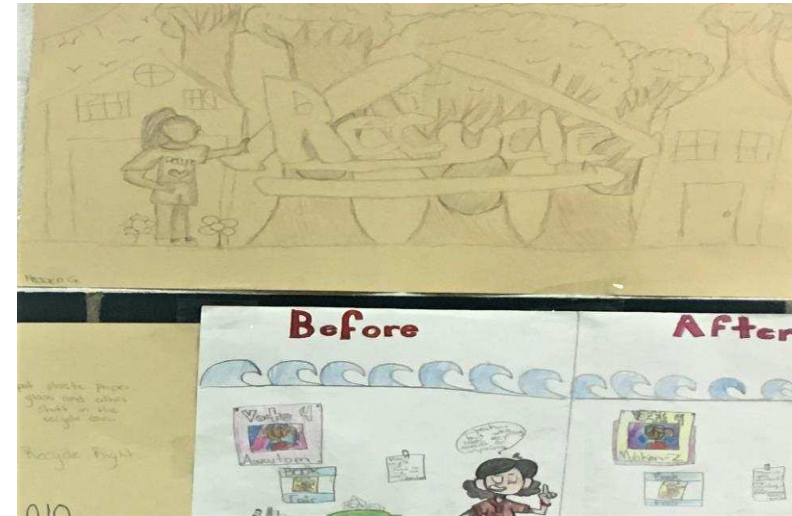
Students read the thermometer to reveal the room temperature and they used the Hygrometer to determine the humidity level in the room.



Students used monitoring tools and recorded that there is Energy wastage in the library because there are numerous bulbs generating light that is not needed. The student Green team members will brainstorm on ways to reduce this waste finding. They visited the school's Boiler room to explore how the thermal energy and electricity in the building functions.

As a result of the Energy audit conducted it was determined the Library energy use has to be addressed .

ONE OF SUITLAND ELEMENTARY STUDENTS' DISPLAYED MESSAGE AROUND THE BUILDING



Earth Day was April 22, 2020, and the 50 years celebration message to our school community was posted on ClassDojo .This is accessed by 969 parents. The conservation of Energy at home was on the list of what families were reminded to consider doing.