

MORNING SIDE ELEMENTARY 2019-2020 NEED PROJECT

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Morningside 5th graders kicked off their energy unit with an “Energy Expo”. Students were paired together to research an energy source. They presented their posters to the class and then took them to the Indian River Lagoon Science festival. Our school purchased us new Science of Energy Kits to help us learn how energy transforms. Each class had six teams that learned an experiment. Classes visited other classes to learn all the experiments from other students. “Kids Teaching Kids” was a huge success for us. Students took some of the experiments and demonstrations to our community Science festival and shared with many others. The Science festival gave students a chance meet new people and share our energy knowledge.



GOAL 1: ENERGY EXPO

▶ **Energy Content Activities**

- ▶ Students studied renewable and nonrenewable energy sources.
- ▶ Students learned the NEED Energy Chants.
- ▶ Students divided into pairs and learned about an energy source. They made an energy poster.
- ▶ Students presented their posters to their class.

▶ **Student Leadership**

- ▶ Students were in charge of researching their energy source, creating a poster and writing a script to present to the class.
- ▶ Students presented their poster to students in their class.

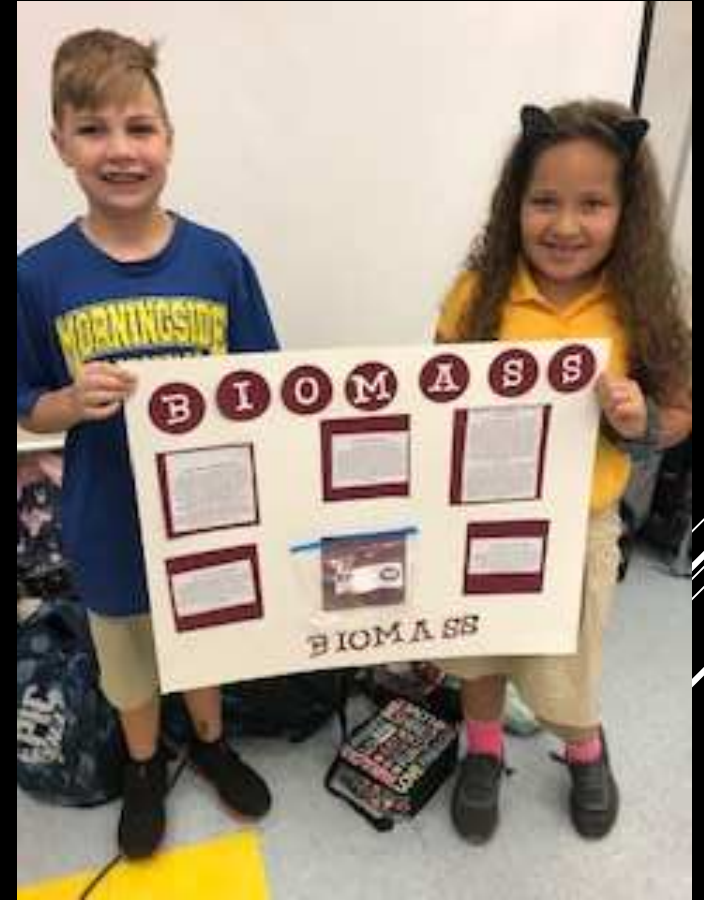
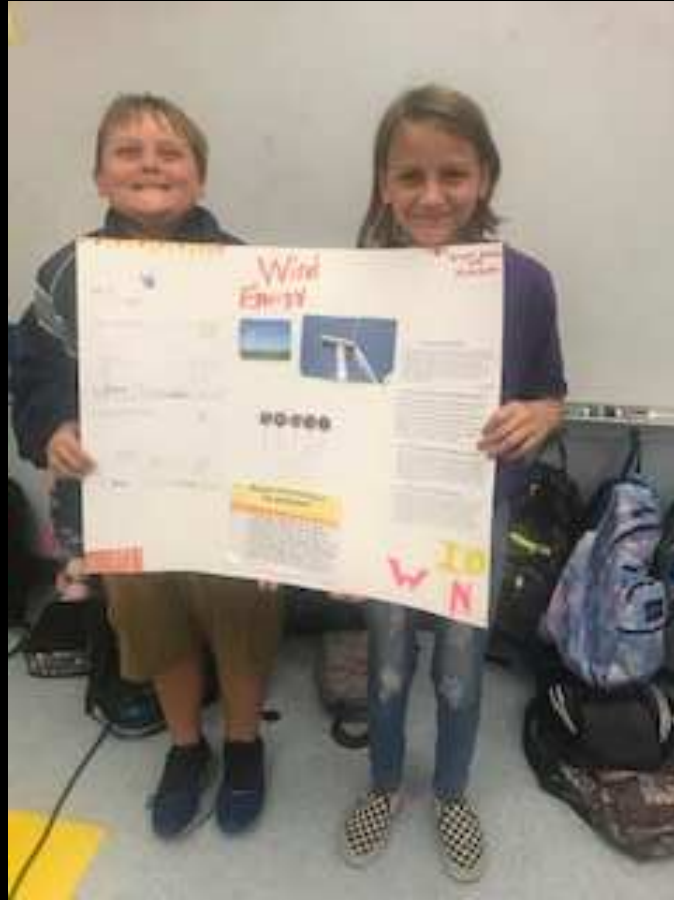
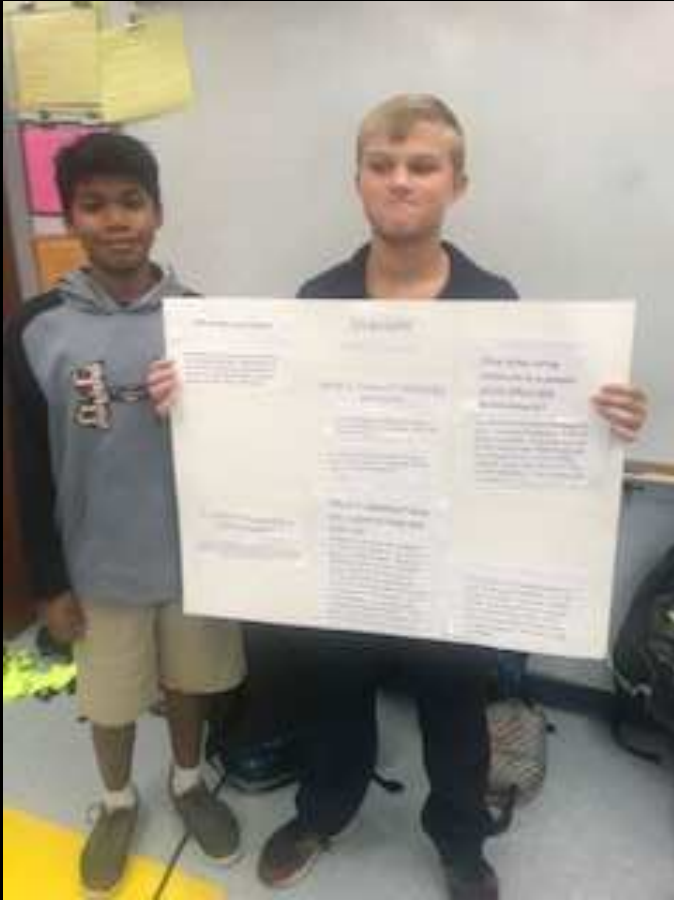
▶ **Resources**

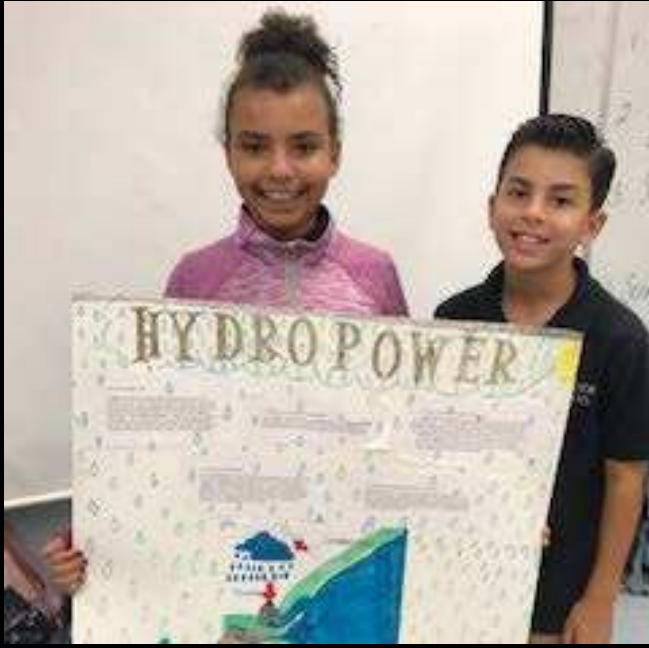
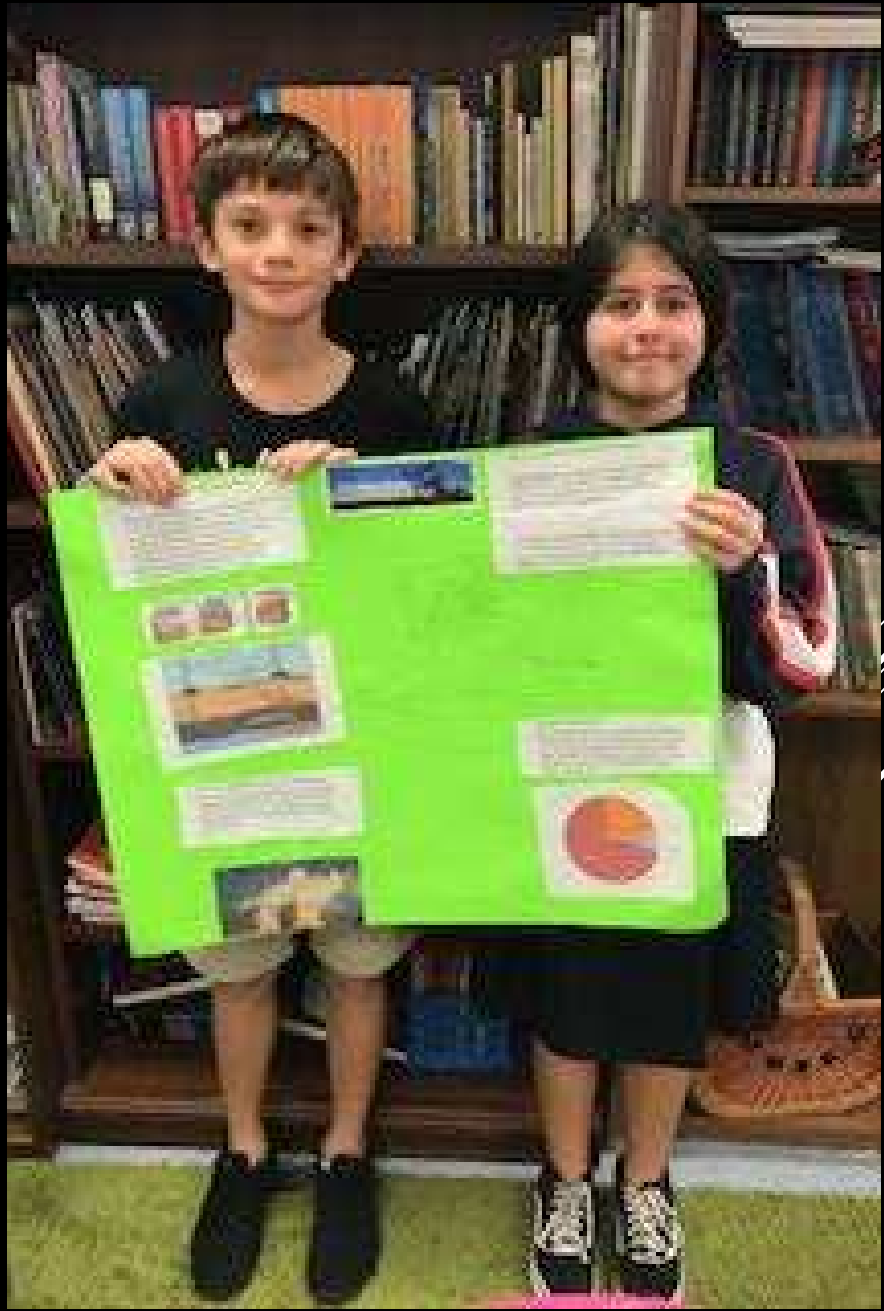
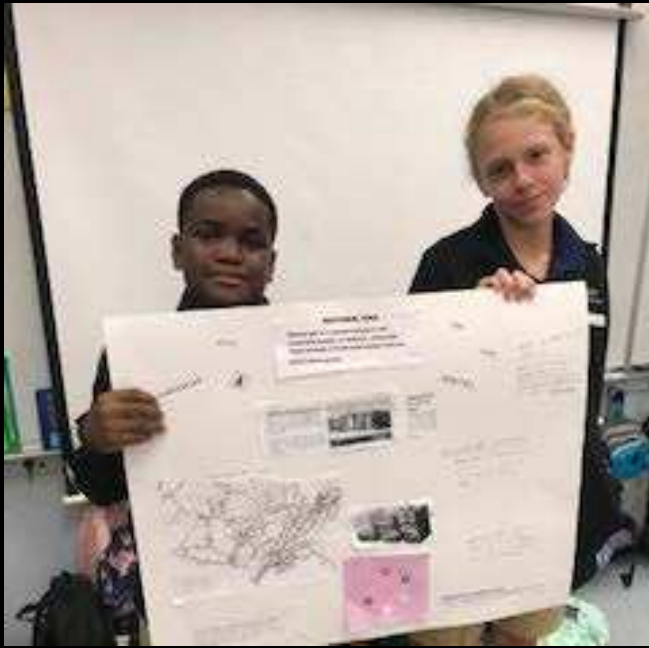
- ▶ NEED Energy Expo unit
- ▶ NEED Energy Info books
- ▶ NEED Energy Chants

▶ **Evaluation:**

- ▶ 1. Unit test on energy
- ▶ 2. Student interest and participation
- ▶ 3. Teacher monitoring of presentations
- ▶ 4. Feedback from other students about presentations

Energy Expo





Goal 2: To learn the Science of Energy

Energy Content Activities

Students studied potential and kinetic energy.

Students learned the NEED Energy Chants.

Students divided into groups and learned a Science of Energy experiment.

Students presented their experiment to other 5th graders.

Student Leadership

Students were in charge of learning their experiment and planning their presentation for other students.

Students presented their experiment to students in another 5th grade class.

Resources

Elementary Science of Energy Unit

NEED Energy Info books

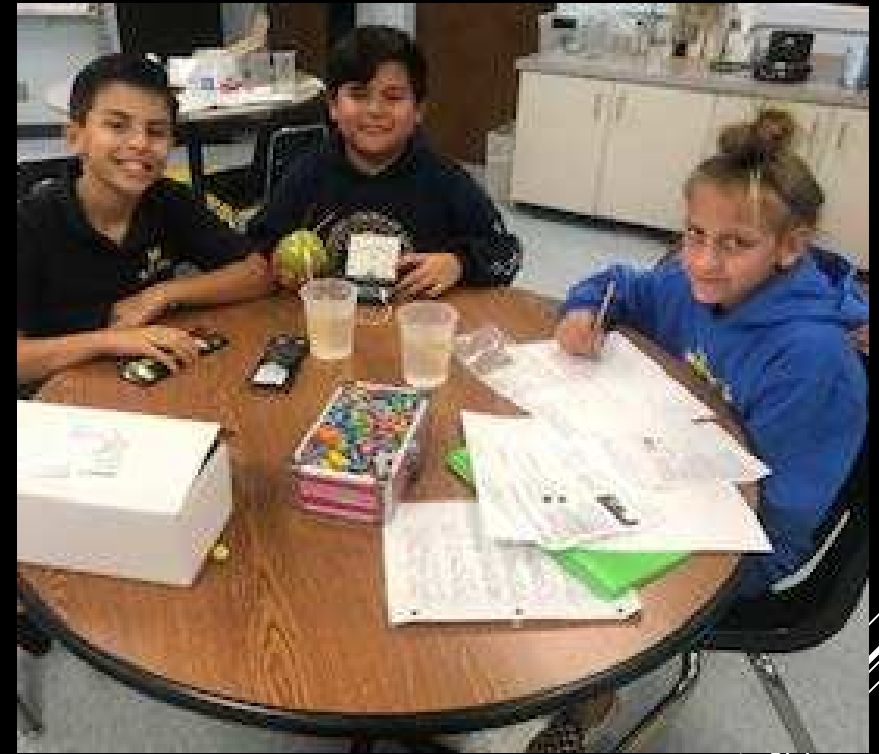
NEED Energy Chants

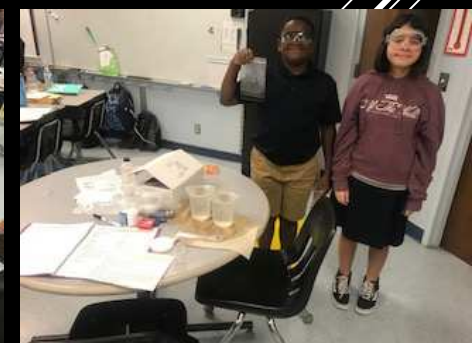
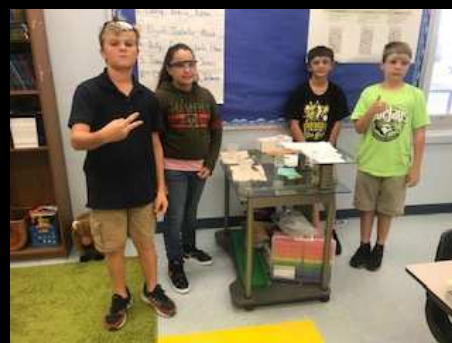
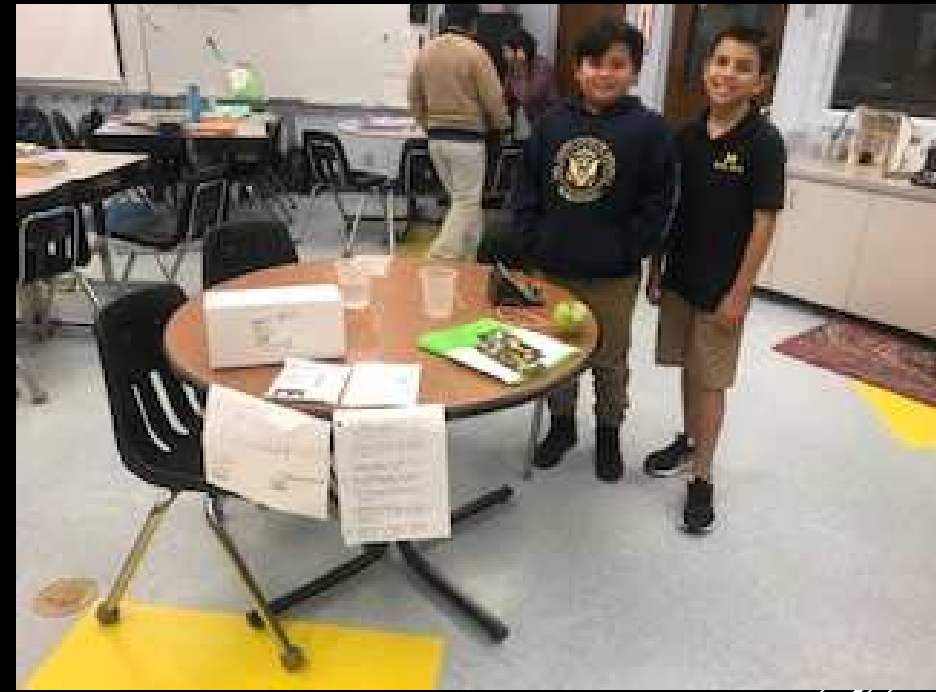
Evaluation:

1. Unit test on energy
2. Student interest and participation
3. Teacher monitoring of presentations
4. Feedback from other students about presentations

First, we learned our Science of Energy stations with our team from our class.

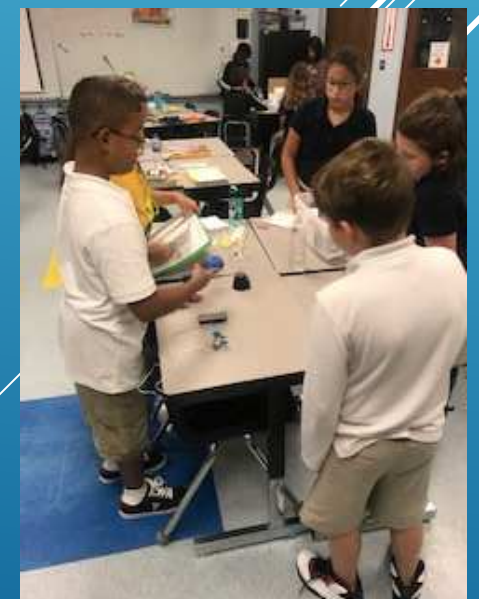
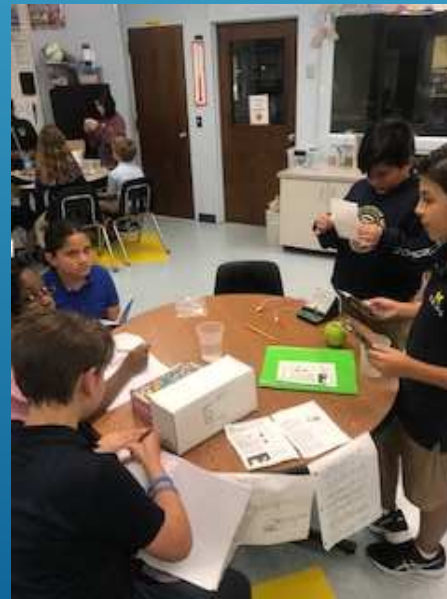
- Station One - Potential and Kinetic Energy
- Station Two - Endothermic and Exothermic Reactions
- Station Three - Radiant Energy Transformations
- Station Four - Thermal Energy and Motion Energy
- Station Five - Chemical Energy
- Station Six - Electrical Energy





First- study, prepare, organize, practice!

Teach other 5th graders



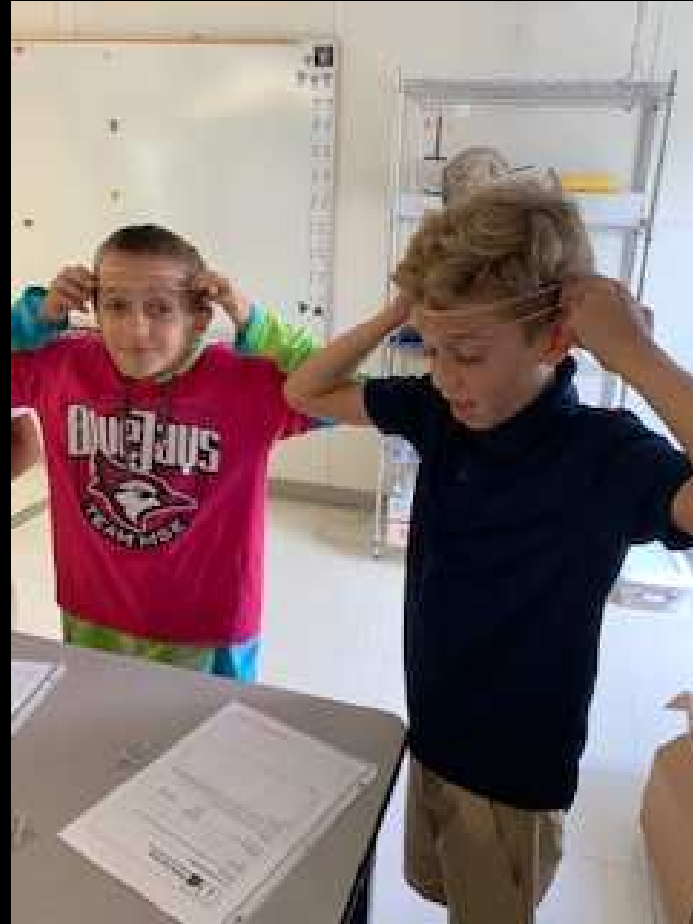
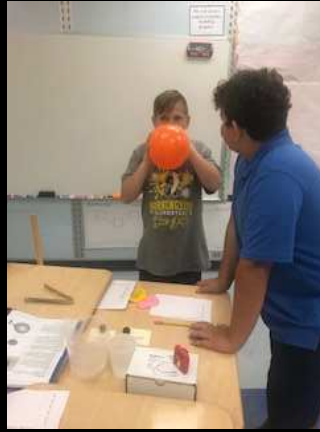
Kids Teaching Kids



Teachers	Students
Mrs. M's Class	Mrs. Williams Class
Mrs. Halberg's Class	Mr. B's Class
Mr. B's Class	Mrs. M's Class
Mrs. Williams's Class	Mrs. Halberg's Class



Kids Teaching Kids



Goal 2: To present at the Indian River Lagoon Science Festival

Energy Content Activities

Students studied potential and kinetic energy.

Students learned the NEED Energy Chants.

Students created posters for an Energy Expo about renewable and nonrenewable energy sources.

Students divided into groups and learned a Science of Energy experiment.

Students represented their school at the Indian River Lagoon Science festival. They took materials from the energy unit to share with the community.

Student Leadership

Students were in charge of setting up the display for our school. There was a schedule for student leaders to work at our school's table and present information about our energy unit to people who attended the festival.

Resources

Elementary Science of Energy Unit

NEED Energy Info books

NEED Energy Chants

NEED Energy Expo Unit

Evaluation:

1. Unit test on energy
2. Student interest and participation
3. Teacher monitoring of presentations
4. Feedback from the community at the Science festival



ABOUT US

OUR MISSION

Helping people realize that science is relevant, interesting, fun and an important part of their lives by promoting community knowledge and experience with science-based organizations in the local area.

OUR BIG EVENT

The Indian River Lagoon Science Festival features a variety of science- and technology-related activities, all with the goal of making science accessible, interactive, relevant and fun for both children and adults.





