

Saint Agnes Energy Club

**Project Title: Ambassadors for
Energy**

Project Advisor: Kelley Schleg

Hello. We are 5th grade students at Saint Agnes Catholic School, and we are part of our school's energy club. Our club has 24 members, all of whom are in 5th grade. Our club's advisor is our 5th grade teacher, Mrs. Schleg! Our goals this year were 1: to learn about solar energy and make solar ovens to roast pumpkin seeds, 2: to teach our school community about composting, 3: to begin a composting program at lunch, 4: to educate other schools about the N.E.E.D. program and 5: to help others have tools when electricity is a problem. We were able to collect 70 solar chargers, hand crank flashlights and hand crank weather radios to help those in need during our Food Pantry.

Goal 1: Learn about Solar Energy

For this goal, we wanted to learn how the sun helps to create energy. So during the month of October, we utilized the NEED website to learn about Solar Energy and found the experiment to build a solar oven using pizza boxes to roast pumpkin seeds. We tested different areas to find the best place to put our ovens based on where the sun would be the warmest, we found the black top parking lot absorbed the most heat and that is where we put our ovens. The seeds turned out tasty!



Goal 1: Solar Ovens continued



Goal 2:

Educating school about composting

To start this goal, each member of the club teamed up with another member and created a slideshow or oral presentation to educate Pre-School through 8th graders about composting. Then each team went to their grade's classroom and gave their presentation.



Goal 2 continued

We presented to the entire school including teachers. Many groups provided interactive projects with questions that students would answer after the presentation.



Goal 2 continued: Composting

After we finished our presentations we weighed the trash for 1 week without composting. Then we had 2 or 3 club members stand at the tray scrape and tell students and teachers what to compost and what to throw away. After lunch each day we weighed the trash and compost. We compared our trash weight from the 2 weeks.



Goal 2 cont.

This is our data from weighing the trash with and without composting.

Composting

Data without composting

Date	Weight of trash	Subtract weight of can	Total weight of trash
February 6	58	-9	49
February 7	23	-9	14
February 8	47	-9	38
February 9	47	-9	38
February 10	38	-9	29

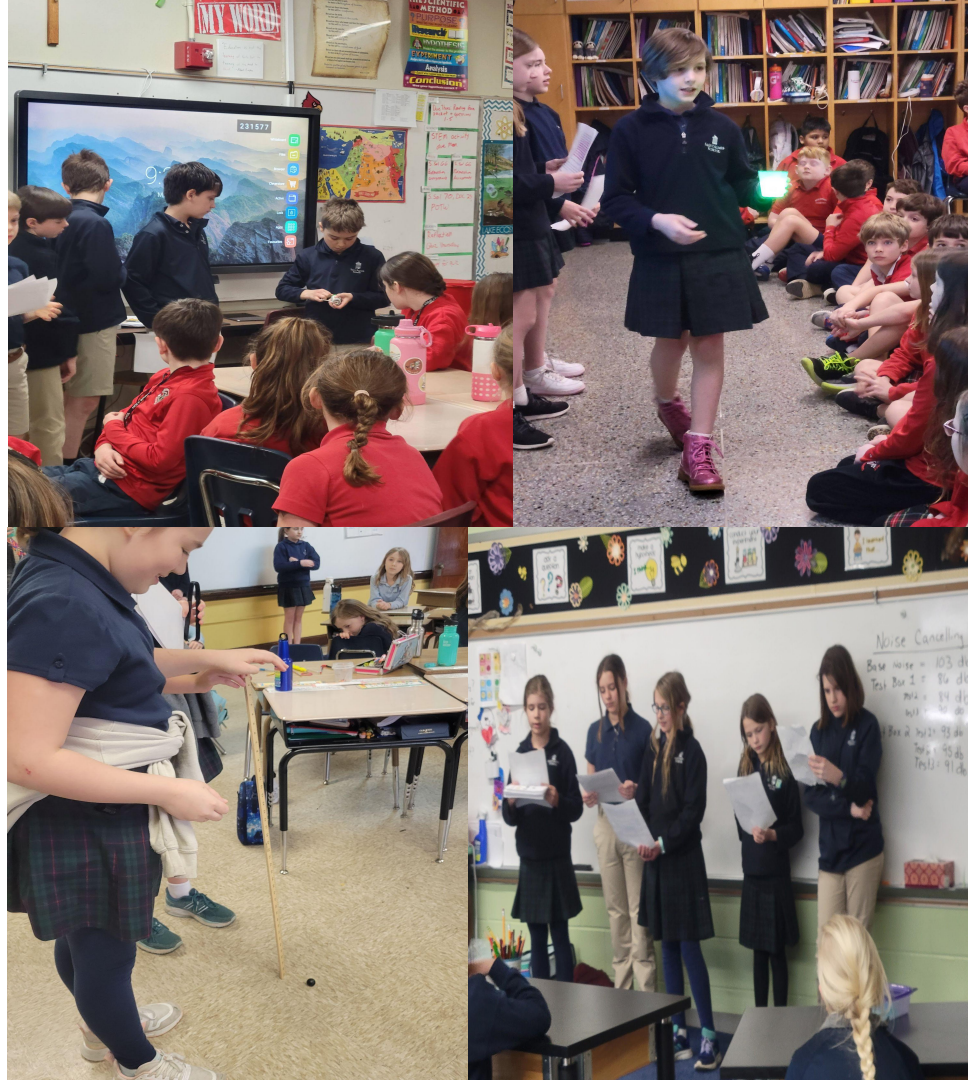
Data with composting

Date	Weight of trash	Subtract weight of can	Total weight of trash
February 13	33	-9	24
February 14	67	-9	58
February 15	no data	-9	no data
February 16	62	-9	53

Date	Weight of Compost	Subtract weight of can	Total weight of compost
February 13	23	-1	22
February 14	6	-1	5
February 15	no data	-1	no data
February 16	1 1/4	-1	1/4

Goal 3: Presenting to other schools

Again we got into groups and started making a presentation. This time we used N.E.E.D. hands-on experiments to teach 3rd and 4th grade students at Holy Spirit, Ascension, and St. Francis schools about different forms of energy. Using the packets connected to the projects, each group created a presentation. First we either acted out the Cool Coal Story or the story of Fern Fossil, then after the presentation and experiment, we answered questions and explained the energy transformations that occurred.



Goal 3 Continued

We did experiments about the different forms and we used the Cool Coal Story and The Tale of Fern Fossil. The experiments we did were about chemical energy, magnetic energy, motion energy, and thermal energy. We then shared about the N.E.E.D. program with the teachers at the schools.



We created slogans to remind parents not to idle in the school's carpool line.

Some of our slogans are:

- No idling for a breath of fresh air
- Be a smartie and don't idle.
- Be a lifesaver don't idle
- Donut idle

Goal 4: Stop Idling during carpool

- Be smart don't hurt our hearts, don't idle.
- Don't idle it is a piece of cake
- Be sweet and don't idle
- Don't idle. It all adds up to cleaner air.

**Goal 5:
Provide solar
powered
emergency
flashlights, radios
and chargers for
those without
electricity.**

We learned about Climate Change and with the recent storms that took our power across our City, we wanted to help those who struggle often without power. Our school has a Food Pantry each month for members of our community who struggle. As our Green Apple Day of Service, the Energy Club and our 5th grade classes collected solar flashlights, crank/solar radios and solar device chargers. We were able to collect a total of 70 items to give to the Food Pantry as a surprise gift to the people who visit our pantry.



We learned so much this year
and enjoyed presenting to other
schools a lot!

