	t Margaret Ee		
automission of the application and p	ith the help of a teach project. Projects must at 1-800-875-5029 wit	be submitted or	nformation when completing online Jline by April 15, 2019. Contact NEED s.
PROJECT LEVEL: PROJE	CT TYPE	CHECKLIST:	
Primary (K-2)	Signature		plication: information compiled and entered onli
Elementary (3-5)	(15 slide maximum)		gital project is submitted and contains
Junior (6-8)	Foundations (4 slide maximum)		_ project summary _ school name and leader names
Senior (9-12)			reporting of goals
Independent and Special Catego First Time Entry/Rookie			documentation (photos, etc.)
			fits within the slide requirements
	-	Digital p	project file name includes school or team na
		Video li	nk has been provided (optional)
roject Title			
	nvironment	ub Name (if applicable)
Saint Margaret Cathe		Pro Erra	Nova Science club
hool Street Address		hool District	of I kell
2510 Enterprise BI	County	Diocese	State Zip Code
Lake Charles	Calcasien		Louisiana 7060
hool Phone Number (Area Code)	May 22, 20	19	U.S. Congressional Representative
hool Fax Number (Area Code)	Email Adoress		School Website
337-436-9932	irceves@st	MCSCOM	www.stmcs.com
MCS Jun BRENER	Julia Dalk	and Data	~ Freeman
nool Principal	Number of Students Coo	rdinating Project	Number of Students Reached
Mrs, Wendy Wicke	। ।५		280
mber of Community Members Reached Directly	Number of Community N		irectly (media coverage, etc.)
mg Phone Number of Advisor (Area Code)	1 \$ 5 0 8 2	2	Hours Spent on Project Collectively
(327) 302-4430		5 P	470
E FINE PRINT		34 - F	
			vith the participation of students and that all informa
in this report are true. We have double-checked to apants acknowlodge that submission, materials, ar			cumentation has been limited to 4 or 15 slides, as ap
	nd other documentation prov		1 Min T
		gueren	aller Jugan orec
July years			r(s) Signature(s)
the life is		-student Director	
er Advisor Schature		Julia h	alker Dylan Freemer

7

Tree desirable

-

Student Leader: Dylan Freeman Student Leader: Julia Walker Video Link: <u>https://youtu.be/ox6kWtyAWRQ</u>



Lexie Chauvin, Haily Arabie, Serina Arabie Colin Smith, Miles Guillory, Milo Perzo, Jacques Metoyer Nicholas Harris, Olivia Derouen, Colton Wood, Lauren McGuire, Annalina David Energizing Our Environment Pro Terra Nova St. Margaret Catholic School Judy Reeves 2510 Enterprise Blvd

Lake Charles, La 70601 337-479-0065

Our club has been energizing the environment through Science of Energy, Energy Works, Oil Energy, and Energy Expo activities. Our group presented Energy Expo to 127 students, published energy chant videos on YouTube, and entered contests through the Parish winning 1st and 2nd Place, clocking 270 hours of work. We joined the Pepsi-Challenge Recycling Competition, collecting 3709 pounds of plastic and aluminum. Also, we participated in Funding Factory, collecting 1478 pounds of ink cartridges. Joining the community in many service projects for environmental and energy awareness like Beach Sweep, Calca Chew, and adopt a road, we clocked 200 hours of service. We are truly energizing our environment.

Goal 1: Identify energy and environmental awareness in Louisiana.

ENERGY CONTENT ACTIVITIES

1. Complete Science of Energy (7th grade & 8th grade), Exploring Oil and Natural Gas, Games and Icebreakers, Science of Energy, Energy Expo, and Energy works (6th grade)

2. Obtained permission from the principal to conduct the activities at school on April 12 (Energy Expo)

- 3. Played Guess the Energy source activity by creating 10 Groups
- 4. Students researched energy topics on National and State levels
- 5. Created invitations and schedules to present Energy Expo to 2-6 grade (127 students)

6. Followed-up with event evaluations, thank you notes, and prizes to participating teachers.

7. Hosted a summer energy camp for 5 days 3 hours a day "Let the Games Begin".

STUDENT LEADERSHIP:

- Dylan Freeman Julia Walker
- Nicholas Harris
- Olivia Derouen
- Olivia Derouer

Colton Wood

- Lauren McGuire
- Annalina David

Lexie Chauvin

Hailey Arabie

Serina Arabie

Colin Smith

Miles Guillory

Milo Perzo

Jacques Metover

RESOURCES

1.NEED's Energy Expo, Energy Infobooks, Games and Icebreakers , Science of Energy, Energy Works, Map activity , <u>www.need.ora</u> links and online curriculum.

2. Pamphlets from our local and state energy companies.

3. Ms. Reeves Resources of websites and contacts.

4. NEED staff www.need.org

EVALUATION :

- Number of activities completed by the classes (See Slides)
- 127 students attending school Energy Expo Evaluations from the students
- We sent out classroom evaluations and received great reviews
- Facebook post of events

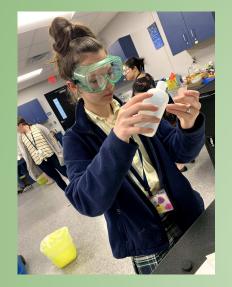
Get the oil out and extract core samples (Louisiana)



Our state is one of the top 10 oil and gas production states. Great fun extracting core samples and oil..









Science of Energy (8th grade)









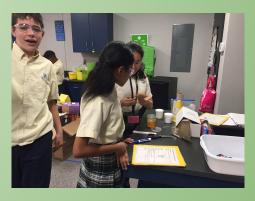
Wow! I get the Flow... of energy! Amazing transfers of energy!

Energy Works (6th grade) / Science of Energy (7th Grade)

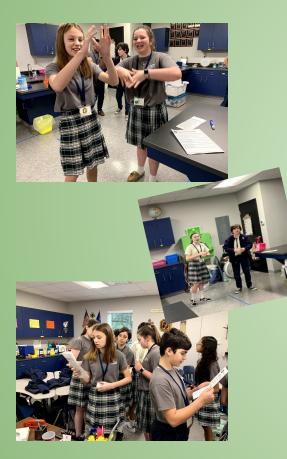


This is interesting... heat transfer!

> Solar Panels Hot! Hot! Hot! Exothermic and endothermic reactions. Energy is Hot!!!



Energy Chants and Group selection



Chant video and poster 10 sources of renewable energy: Coal: https://youtu.be/uBEVIH5XW5w Uranium: https://voutu.be/dwHrGfJJ4I8 Petroleum: https://youtu.be/4lhfZiF AZc Propane: https://youtu.be/pXQedUFtImU Natural Gas: https://youtu.be/HJMuEzkDG-Q Hydropower: https://voutu.be/0JhI2PzJCvo Geothermal: https://youtu.be/m2pyvWeJDzE Biomass: https://youtu.be/ZPZJXRzPBfs Wind: https://voutu.be/Vvb3iVG2xno



Energy Expo: Preparing and Planning (8th grade)



Summer Camp June 2018

Summer Camp solar racers.





We also participated in Pepsico Summer Challenge and won \$200 for recording our recycling during the Summer Camp.



Goal #2 : Three "R" Reuse, Reduce, Recycle Community Awareness

Activities

- Go to each classroom with recycling and Pepsico information and why we reduce solid waste (Talking Trash) Science 8th grade. Team Leader: Nick Harris, Assistants: Evan Mathis and JT Kihlken. All science club members participate in Tuesday Recycle Day (each assigned a class or area to pick up recycling bins)
- Made Recycling Flyers with recycling information and had them posted in newsletter and handed out at community events, open house, and PTC.
- Recorded weekly recycling collection, sorted recyclables, and weighed solid waste material
- Created and Decorated collection site, monitored sites for Pepsico and funding factory items, and packaged and shipped items monthly or as needed.
- Kept detailed records on plastic and aluminum and uploaded to Pepsico and received for free 5 new 50-gallon plastic recycle bins and 12 30-gallon recycle cans for classroom teachers.
- Community involvement:
- At the Calca-Chew Community Food Festival, we handed out school recycling and collection flyers, Team green flyers, posted table tent about recycling and collected recycling at the event
- Adopt A Road City wide event: 17th street 5 mile area
- Beach Sweep: Keep America Beautiful Event, Lakeshore drive waterway

STUDENT LEADERSHIP:

Dylan Freeman , Julia Walker, Nicholas Harris, Olivia Derouen, Colton Wood, Lauren McGuire, Annalina David, Lexie Chauvin , Hailey Arabie, Serina Arabie, Colin Smith, Miles Guillory, Milo Perzo, Jacques Metoyer

RESOURCES

- NEED's Talking Trash and Mentoring and monitoring
- Mayor's office, Jr. Team Green Mrs. Vincent, Blake Trahan, Lake Charles Waste Management
- Mr. Mike School custodian
- Citgo: Pat Melancon
- Ms. Reeves Resources of websites and contacts.
- Funding Factory , Pepsico

EVALUATION

Recycling Flyers posted in Viking Vine (280 families), Church Bulletin (3000 families), Call reach (275) Cal-Ca Chew(250), PTC (150), and Open House(150) Amount recycled

Funding factory	Calca-chew	Pepsico / School recycle
TONER CARTRIDGES 541 UNITS COLLECTED 1,473 POUNDS COLLECTED	8/ 50 gallon trash bags Of PETE 75; 30 gallon bags of PETE and 10; 50 gallon bags of aluminum	3079 lbs of plastic & aluminum
INKJET PRINTER CARTRIDGES 159 UNITS COLLECTED 14 POUNDS COLLECTED		Cardboard and paper collected averaged to 700 pounds per week 19,000 pounds kept out of landfills



School Recycling: includes Parents, Teachers, & Students!

That's a lot of Aluminum! Thank you, Mr Walker, for

bringing all to the

recycler!

Nicholas Harris, Evan Mathis, JT, and Mrs Reeves worked together to get a great team of recyclers.



Calca-Chew October 2018

Awareness. The team handed out City Recycling Information and School Recycling Information to over 200 participants!







Beach Sweep September 2018



What a team! We cleaned 5 miles of Lake Charles Beach, collecting 30 bags of garbage and a trailer full of debris!





GO TEAM! LOOK at all that Garbage!!! A Cleaner Lakefront!

The Pro Terra Nova Gang is all here!

Divide and conquer to get the 8 blocks cleaned!





17th Street is an 8 block area. We divided and conquered cleaning this area collecting 6 30-gallon trash bags of garbage!