



STREAM

ST. JOSEPH SCHOOL OF ALL SAINTS PARISH

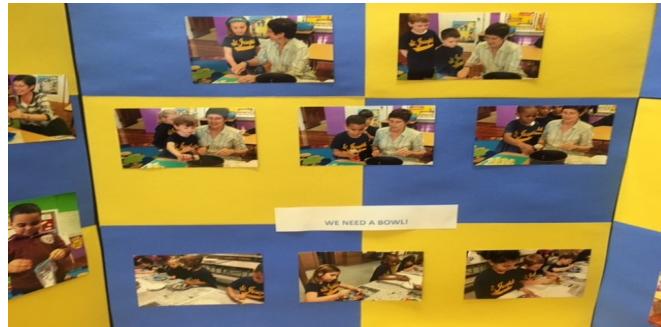
FEATURE STORY

STREAM FAIR HIGHLIGHTS 2016-2017

On Thursday, April 27th, St. Joseph School hosted their annual STREAM Fair, highlighting the students' year-long studies in science, technology, engineering and math. The night was an extravaganza of projects, demonstrations, experiments, posters and activities infused with the themes of Global Awareness and the Corporal Works of Mercy- both set by Pope Francis for the 2016-2017 school year.

Through their displays, students demonstrated how their learning embraced the Corporal Works of Mercy in applications that serve humanity as well as helped spread the awareness of how we, individually and collectively, impact our global society.

Parents, friends and members of the greater community were



Kindergarteners work throughout the year to understand and attack the cause of hunger

on hand to view and participate in the night's activities. They interacted with students across grade levels around projects presented in the gym.

This issue of *STREAM* provides exclusive coverage of the highlights of the fair.

We thank the students of St. Joseph School for sharing their knowledge with us. Addition-

ally, we are grateful and appreciative of the efforts of each teacher who works tirelessly every day to expose students to both theory and real world applications of Science, Engineering, Technology and Math. Our appreciation also is extended to parents and friends who provide ongoing support of learning at home throughout the year. Thank you.

Mary's Meals: Kindergarten Attacks World Hunger

The kindergarten began a year-long discussion on hunger back in October. We collected goods for the Pregnancy Care Center in Haverhill and donated to the 'All Saints Food Pantry' all year. This became a geography lesson as the children learned about causes of hunger around the world

today. From there, we changed the discussion slightly to encompass good nutrition and we "filled" plates with healthy meals and even helped prepare one at home. We began working with *Mary's Meals*, a wonderful organization that combines schools in refugee camps and poverty-

stricken areas around the world with a healthy meal each day for the students. We learned about uneven and unfair global distribution of food resources in a Rice Krispie treat game, and then we made and sold treats donating \$87.75 to *Mary's Meals* to help feed nearly 4 children for a year!

Volume 1, Issue 8

April 2017

FEATURE STORY

STREAM FAIR -

HIGHLIGHTS FROM OUR 2016-2017 SCHOOL YEAR

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Grade 1 Safeguards Water and Grade 2 Raises Awareness of Endangered Species

Children in grade one studied the Water Crisis. We focused on facts, research, inventions, and fundraising. Children made brochures to educate others, built water filtration systems, used math to talk statistics, and used Bible verses to help us understand our mission of helping. By selling lemonade at lunchtime for the month of April, the First Grade students successfully raised over \$ 130.00 dollars for Water.org!



Grade 2 has been learning about Endangered Species. We posted faces of endangered species on our Classroom door, made research posters on information using iPads & resources from the library. Then we made dioramas of endangered species living in their natural habitats. Another part of our project was to explore the issues that are causing animals to become endangered and how we can help endangered species. Part of our studies was to use imagination to write make believe stories with endangered species as the main characters and then propose a plan of action to help endangered species. We connected math with fraction fun with Endangered Species data. The connection to religion is that we are followers of Jesus when we take care of the Earth and all of its creatures

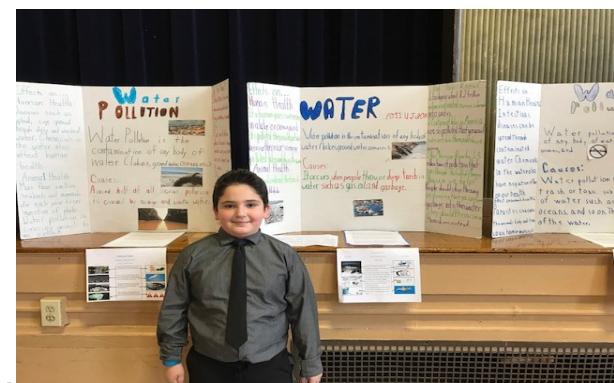
Grade 3 Looks to Saving the Rainforests

Students in grade 3 studied all about rain forests around the world. They learned about various animal and plant life within the rainforest. They focused on many products that come from the rain forest that we use every day. The third graders learned about reasons why and how people are destroying the rain forest and the importance of trying to save our rainforests before they are all gone!



Grade 4 Takes on Pollution

Grade 4 researched three types of pollution: air, land, and water. Each student was assigned a type of pollution and conducted their own research. They gathered information including the causes of the pollution, affects on human and animal health, interesting facts, places in the world most affected, and how we can help. They used the research to make a tri-fold poster that included pictures. They also had to come up with their own slogan about pollution and find or draw a picture that represented their slogan. We also put our knowledge of author's purpose to use and wrote three paragraphs about pollution: one to entertain, one to inform, and one to persuade. In Computer class, the students completed cause and effect webs about pollution. Finally, we created "trash creations" using recycled materials.





Grade 5 Studies Green Transportation Systems and Nano-club delivers Nano-properties Harnessed for Medicine, Industry, Manufacturing and Science

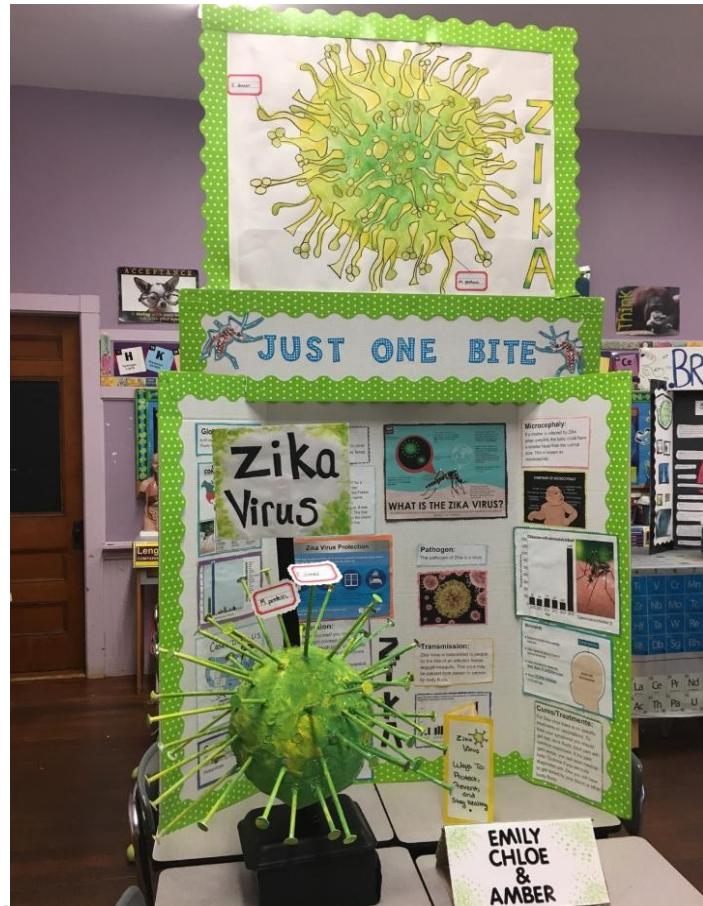
Grade five projects targeted “Green Transportation” by exploring, designing and creating magnetic levitating transportation systems. Using the properties of magnets, students created trains that levitate above tracks that are magnetized. Students provided parents with hands-on projects to manipulate as they learned how magnetic levitation works. As a side project on magnetism, Fifth Graders helped their parents make their own compass. They demonstrated how electrons are transferred to metal pins as they were rubbed on a powerful magnet. The pin was placed in water and parents watched as they automatically aligned with the North Pole!

Grades 7 & 8 Nanotechnology students displayed several experiments they conducted throughout the semester, including a hands-on demonstration of hydrophobic sand. Nano-properties such as adhesion and ferro-fluids were on display along with the Club’s model of the Buckminster Fullerene Carbon nano-tube they made earlier in the year. Students enjoyed showing their parents how sand remained dry under water!



Severe Weather Events and Climate Change is Target of Grade Six

The Sixth grade project focused on the connection between Earth’s changing climate and its connection to extreme weather. In collaborative groups of four, students analyzed emission data from several countries and the role gases have in creating a ‘Greenhouse Effect’. The students displayed the information through graphs using Microsoft Excel. Students also researched how extreme weather events have become more frequent and severe over the past several years. Part of the research was to investigate the causes, effects, and tips for staying safe during a severe weather event. Finally, students created various 3-D dwellings that proved to withstand each extreme weather examples.



Gr 7 Presents Pandemics

Grade seven students researched recent pandemics. They created models of the actual viruses and presented facts and other information they researched. The students used detailed illustrations and graphs on their tri-fold posters to accompany the colorful brochures they created in class. The brochures were comprehensive catalogues of the various ways people could protect themselves and prevent exposure to pandemic viruses. Promoting global health is the name of the game for these Seventh Graders.

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EXCELLENCE IN EDUCATION



Mission Statement

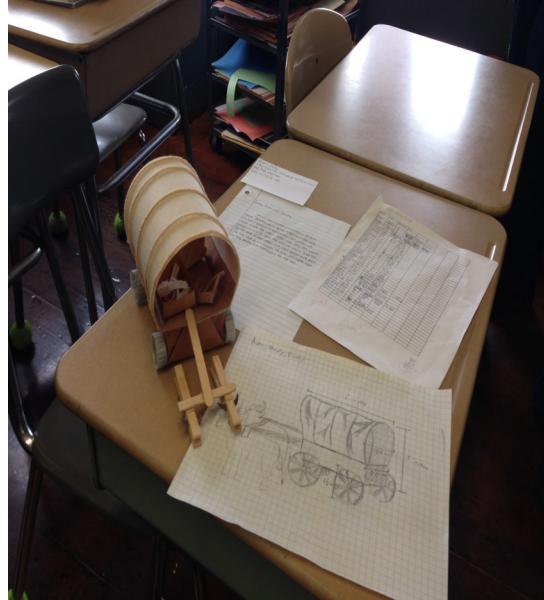
*St. Joseph School of All Saints Parish serves
students from nursery
through grade eight from Haverhill, Massa-
chusetts, and surrounding areas.*

*We offer a challenging academic program
integrated with Catholic values
in a safe and welcoming environment. We
strive to develop an awareness
and concern for the less fortunate through
the practice of the
Corporal Works of Mercy.*

EIGHTH GRADE- Global Human Rights and Solid Geometry

Grade 8 examined Human Rights on a global level and population expansion on a domestic level. Using the United Nation Doctrine of Human Rights, we researched five areas. In groups, the class wrote a report and designed posters explaining how the rights are being/not being honored and ways the world can address these issues. They did comparisons of two+ countries and created pie charts/line graphs or bar graphs explaining results.

We also studied the exploration of the Oregon Trail. The class was put in to “families” and designed and constructed Conestoga wagons. The students plotted out their journey West, created a budget, and kept individual journals describing their journeys.



Eighth Grade students' Solid Geometry Projects were on display at the STREAM Fair. The projects had many dimensions including using formulas for surface area and volume, writing word problems involving prisms, pyramids, cones, and cylinders, and independent research on the role these shapes play in industry, manufacturing, architecture and marketing. The students constructed 3-D figures and designed posters that explain the properties, formulas and uses of the figures.