

2017-18 GREEN SCHOOLS QUEST SUBMISSIONS

57 schools are participating in the 2017-18 Green Schools Quest. At each school, Green Teams are hard at work devising and implementing – with the help of a USGBC-MGC Green Mentor – creative, effective and no or low cost sustainable practices for their school. Please join us in celebrating ALL participants of the 2017-18 challenge!



ELEMENTARY PARTICIPANTS

REUSING RESOURCES TO HELP OTHERS, *BELLERIVE ELEMENTARY*

School Team Sponsors: Debra Kirby (Primary) & Dr. Jami Debosch

Mentor: Caroline Lesch, University of Missouri- Columbia

Our Green Team Leaders worked with a local organization within the community to recycle spray and soap bottles. This organization reuses bottles and refills them as needed. The organization said it is hard to get enough containers to store and share the soap and cleaners they produce. Through the work of the Green Team, we are allowing less waste and our leaders are learning about how they can make an impact.



REDUCING CARVER'S WASTE-LINE, *CARVER ELEMENTARY*

School Team Sponsors: Britt Tate Beaugard (Primary) & Anne Markle

Mentor: Jennifer DeRose, St. Louis Earth Day, Green Dining Alliance

Carver reduced their waste footprint cutting their daily cafeteria waste IN HALF, from 74lbs to 37lbs per day through composting, recycling, and TREX. They also collected over 700 re-usable water bottles to replace bagged water, single-use bottles and soda during school and address the lead issue in their drinking fountains. They collected seeds and compost to grow food on-site as well. The Green Team (18 kids) manages daily recycling and composting in the cafeteria, as well as classroom recycling. The project also included one Zero WASTE lunch, where Styrofoam trays were replaced with compostable trays and NOTHING went in the trash.



LITTLE CHOICES MAKE BIG DIFFERENCES,

CHRIST COMMUNITY LUTHERAN SCHOOL

School Team Sponsors: Katie Clark (Primary) & Janet Leet

Mentor: Katherine Golden, EarthWays Center of the Missouri Botanical Garden

Little Choices DO indeed make a BIG difference. Such a simple message, but incredibly pertinent to so many aspects of life and definitely a message to teach our children. The CCLS Green Team kicked off their program last year and has grown to encompass more than 30% of the student body as regular attending members this year. All students, faculty and staff are involved as we started composting and working to go from a Green Team to a Green School!



EXPLORING OUR ENVIRONMENT, ENERGY AND ECOSYSTEMS, *CLAYMONT*

School Team Sponsors: Laurie Leary (Primary) & Michelle Weissenbom

Mentor: Segolene Renaze, Schultz & Associates LLP

Claymont's Green Schools Quest inaugural year focused on education and creating a community of learners aimed at conservation, sustainability, environmental stewardship and making connections with district, community and global partners/resources. Students worked with Missouri Department of Conservation, Trane Corporation HVAC, district leaders and community experts on various subtopics throughout the year. Results included: campus-wide bird feeders made by students, school ecosystem study, geothermal site visit, and a student led energy audit (upcoming).



2nd PLACE

THE EFFECT OF WHAT WE GROW, *COMMUNITY SCHOOL*

School Team Sponsors: Joe Mohr (Primary) & Marty Hoessle

Mentor: Ralph Bicknese, hellmuth + bicknese architects

How does what we plant on campus impact the students/staff, animals/insects, local watershed and overall environment? By watering our garden with water collected from a rain barrel, creating compost from lunch waste and keeping chemicals out of our soil, our garden will have minimal negative impact while providing students and staff with organic fruits and vegetables. We will also identify and remove invasive honeysuckle and replace it with native shrubs and trees. Finally, by planting pond lettuce our pond will become more oxygenated and habitable for local amphibians and reptiles.



CREATING A POLLINATOR GARDEN, *CHRIST, PRINCE OF PEACE SCHOOL*

School Team Sponsors: Lynn Page (Primary) & Joan Patton

Mentor: Alyse Garbisch, Jacobs

The students in 3rd grade measured and researched pollinators and pollinator friendly plants to cover a tiered planter area currently unplanted and eroding on the hillside next to the wheelchair accessible ramp used by the school and parish community. The goal of the project is to reduce runoff, increase community awareness of the role of pollinators in our food supply, raise awareness of the disappearance and vulnerability of bees, and reduce the herbicides and pesticides that are threatening the existence of pollinators.



CORGI GREEN QUEST, *CROSSROADS ELEMENTARY*

School Team Sponsors: Kim Kessler (Primary) & Meghan Aydelott

Mentor: Mike Merritt, St. Louis Lighting Group

Green schools quest is project participated in by schools across the area. Our driving goal is to make our community a better, greener, place. In our green school project, we are working to make our school better by creating an environment friendly, self-watering garden. This garden will include pollinator friendly flowers, edible food and herbs, a compost bin and, a rain barrel system. We feel this will help our community's environment because it is safe to pollinators, it takes care of the trash in a green way, and it also repurposes many things that should be kept out of landfills.



PROJECT WASTE REDUCTION, *EAST ELEMENTARY*

School Team Sponsors: Jen Herring (Primary) & Sarah Jones

Mentor: Kim Petzing, Madison County Government Planning & Development Dept.

East Elementary students and staff have been concerned with the amount of waste generated in their school cafeteria, both in the terms of packaging and service ware, as well as the amount of food thrown away. Therefore, the 5th grade Green Team decided to focus their Quest project on reducing waste in the school cafeteria. However, during the project, students became aware of the idea of local food deserts, and decided to expand their work to benefit their community. The Quest project gave the students a chance to enhance their academic and social/emotional skills into a project that was fun and inviting, all while learning the about the connections of conservation, food, and community.



EDGAR ROAD GIVES BACK, *EDGAR ROAD ELEMENTARY*

School Team Sponsors: Peter Eckrich (Primary) & Erica Ly

Mentor: Wanda Evans, St. Louis Zoo

The 5th grade students at Edgar Road Elementary participated for the first time in the Green Schools' Quest. The fifth grade students focused on two areas; composting and recycling. The students wanted the school to start composting so they researched, taught the younger grades and implemented a composting system. They also wanted to rethink how we recycle and to improve our recycling. They again taught lessons, did a recycling audit and implemented a program to recycle and to also reduce the amount of paper.



1st PLACE

#NOSTRAW4ME, EUREKA ELEMENTARY

School Team Sponsors: Lindsay Pardeck (Primary) & April Dalrymple

Mentor: Bonnie Harper, East-West Gateway Council of Governments

Our school's green team learned about the benefits of reducing waste. They conducted an audit of our cafeteria trash. The number of straws found was concerning. A No Straw Challenge was then born. Information was shared with the entire school, and all students were encouraged to sign a pledge promising to skip the straw. The students took this challenge very seriously. The final audit of cafeteria waste showed fewer straws had ended up in the trash. Today the straw container in the lunch line rarely needs to be refilled and that is a win for all.



SPROUTING ECOBUDS, HIGHCROFT RIDGE ELEMENTARY

School Team Sponsors: Diana Schumacher (Primary) & Kim Rudd

Mentor: Betsy Crites, Missouri Botanical Garden

Thanks to Green Schools Quest, Highcroft established a new environmental club- Ecobuds. Although just a seedling (new sprout), a strong root system is being nurtured. New vocabulary emerged, such as "ecocation" – the learning and teaching of the 3Rs (reduce, reuse, and recycle). Founding Ecobud members, or "ecocators," researched hand dryers and made signs, presentations, and demonstrations to teach how to reduce the amount of paper towels and germs. Besides teaching themselves and the entire student body and staff, Ecobuds also reached out to the whole community. Their STEM Night station inspired all to think differently about reducing, recycling, and reusing.



SCHOOLYARD HABITAT, JACKSON PARK ELEMENTARY

School Team Sponsors: Lyndlee Mabry (Primary) & Rebecca O'Connell

Mentor: Jennifer Wendt, City of University City

In this Buck Institute inspired PBLunit, students had an opportunity to positively impact their local environment by researching, designing and implementing a plan to create a pollinator habitat for wildlife on their school grounds. Their goal was to attract bees and butterflies, as well as provide nesting and feeding sites for birds.



GREEN SCHOOLS QUEST 2017- 2018, MANN ELEMENTARY

School Team Sponsors: Lori Gardner (Primary) & Emily Zilm

Mentor: Brandon Walker, P2I (Positive & Productive Innovations)

Our project is an endeavor into reducing, reusing, recycling and encouraging our classes, school, and community to join the quest to help the earth. We reduced our energy use and waste going into the trash. Also, we found ways to reuse items in the class and school. For example, students reused cardboard to create our signs to join the quest. A block clean-up was completed and a plan for an annual block clean-up has been set in place. We also reduced electric usage by turning out light switches to reduce electrical use. Overall, we wanted to encourage our school and community to reduce, reuse, and recycle for a lifetime.



PROBE "WASTE WIZARDS",

PROBE GIFTED CENTER 2-5 (FERGUSON FLORISSANT)

School Team Sponsors: Michael Vordtriede (Primary) & Dr. Chris Ries

Mentor: Carolyn Green, Green Design

We are the Wednesday Waste Wizards. On Wednesdays a group of 13 5th grade gifted students wanted to improve lunchroom trash collection at Duchesne. All lunchroom trash was sent to the landfill dumpster. It was a WASTE! Our Green Schools Project was to design, create, and implement an organizational system that at lunch that educates students to compost and recycle the appropriate waste items. Our Waste Wizard Lunch Stations increased amounts of recycling and decreased land fill amounts.



3rd PLACE

PIECE OF TRASH, *RITENOUR CENTER FOR GIFTED EDUCATION*

School Team Sponsors: Mary Waskow (Primary) & Michele Gastreich

Mentor: Paul Todd Merrill, Clayco

As part of the spring 2018 semester unit, the 2nd grade class at the Gifted Center attempted to address the driving question; “How can we reduce trash at the Gifted Center?” Our goal was to start a pilot program at the Gifted Center that would be replicated within Ritenour Middle School and eventually throughout the entire district. The class focused on diverting food and recyclables from landfills. We want to create a culture of recycling and green practices throughout the Ritenour District.



COMPOSTING IS THE NEW GREEN, *ROBINSON ELEMENTARY*

School Team Sponsors: Christy Berger (Primary) & Anthony Fields

Mentor: Leslie Garner, Haastings+Chivetta Architects

We wanted to find a way to help Robinson be more green, so we decided to start a composting project in all the classes. WE began by getting pre-data asking questions on survey then put composters in the classrooms. We weighed and collected the compost everyday. Many kids are now interested in composting, because every week we collect more compost. During week 6, kids at Robinson collected 115.61 pounds, giving us a total weight of 359.61 pounds of food collected and composted. We are so happy, because a lot of waste is helping instead of hurting our earth!



ILLUMINATING ENERGY, *ST. MARGARET OF SCOTLAND*

School Team Sponsors: Jenny Spengemann (Primary) & Jen Kavanaugh

Mentor: Sarah Fahey, Washington University in St. Louis

Students studied daylight, alternative energy and electricity’s impact on the environment. The class conducted research and interviewed electrical engineers to better understand electricity, batteries, and environmental impacts. An architect also shared the importance of daylight and helped students simulate and observe the natural light in their classroom using models. Groups presented their research to the class, and through the scientific process, created lamps powered by an alternative energy sources, primarily food batteries. Each group presented their project at the school science fair and participated in a school day without electricity to determine how they could save energy.



DRINKING WITH DINOSAURS, *SUNRISE ELEMENTARY*

School Team Sponsors: Tracy Brosch (Primary) & Angie Rowden

Mentor: Joseph Panhorst

Our project was to create a solid base of understanding about water in the world, water use in our district, and water conservations practices that students can use, teach to others, and enforce. In order to provide real life applications, we set up a filtration experiment/lab. Students were provided supplies and were allowed to experiment with the goal of getting clear water out of dirty water. The engagement and enjoyment from this project was evident. Our second question revolved around the efficiency of our water fountains. Our mentor set up a test where students timed their drinking from our water fountains while catching the run off that went down the drain. We calculated that they only consumed 52% of the fountain output while drinking, meaning they lost 48% of the water to the drain. That percentage was astounding to students!



ELEMENTARY PARTICIPANTS

2017-18 Green Schools Quest

BACK TO THE BASICS, *W.W. KEYSOR ELEMENTARY*

School Team Sponsors: Mrs. Traci Jansen (Primary) & Dr. Alyssa Taylor

Mentor: Jennifer Schamber, Greenscape Gardens

As Keysor has entered into its fifth year participating in the Green Schools Quest, we wanted to take time this year to solidify our sustainable practices with our entire community. We worked together to develop awareness videos and resources, sharing our school-wide sustainable practices. To pair with our waste sorting, we also added plastic bag collection for waste redirection. In addition, we began monitoring our practices through implementation of the ENERGYSTAR Portfolio. These education pieces were extended into the development of videos to share safe practices for our community, so they may enjoy our outdoor exploration space, Project IDEA, appropriately.



BRINGING IT TOGETHER – FULL CIRCLE SUSTAINABILITY, *WESTCHESTER ELEMENTARY*

School Team Sponsors: Stefanie Limpert (Primary) & Robert “Bo” Ricker

Mentor: Alice Kranz Kauss

We have a full-circle approach to sustainability with efforts to help our community, our earth, our students and staff, and our chickens. Our project included composting, collecting rain in rain barrels, and growing plants indoors to improve air quality. We keep one rain barrel near the chicken coop. We use it to collect water for the vegetable and herb plants we have in the coop. We supplement the chickens regular diet in the summer and fall with these plants. The herbs we plant help to keep the chickens cool on hot days.

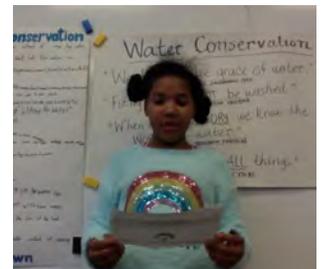


WATER USAGE AND CONSERVATION, *THE WILSON SCHOOL*

School Team Sponsors: Mara Goldschmidt (Primary)

Mentor: Jim Moler, Jacobs

Wilson participated in the Green Schools Quest program this year for the first time. Third-graders focused on water usage and conservation. They coordinated this study with the Level-Up-Village curriculum they used. In the Level-Up-Village program, our third graders learned about water usage, water properties, water filtration, and the global water crisis. They were paired with a class of third-graders in Mexico who were also learning the same concepts, and students corresponded with their pen pal via video letters. Another of our goals was to obtain a rain barrel to collect water to irrigate various plantings around the school, thus conserving tap water. We ran into some difficulty with the logistics of installing a rain barrel. The sixth graders explored ways for the school to conserve electricity. Third-graders and sixth graders shared the information they learned.



CLEAN IT, GREEN IT, MEAN IT! *WREN HOLLOW ELEMENTARY*

School Team Sponsors: Susan Giles (Primary) & Tanya Tinerella

Mentor: Erik Lueders, Parkway School District

Wren Hollow’s Green Team would like to reduce our carbon footprint and reduce energy costs associated with heating, cooling, and cleaning by planting native trees, bushes, and plants outside our building. We would also like to install a water barrel for rainwater so we can naturally and ecologically water and care for our new plants. Lastly, we have reached out to a local nursery asking for additional flower donations to plant the front of the building for increased oxygen, carbon absorption, color, and beauty.



A PATH TO PLASTIC WASTE REDUCTION,
CHAMINADE COLLEGE PREPARATORY SCHOOL

School Team Sponsors: Angie Pisutha-Arnond (Primary) & Mark Laury

Mentor: Michael Sorth, Great Rivers Greenway

Our project focused on reducing the amount of plastic we use on campus, particularly in the cafeteria and for daily consumption. We focused on three core components:

1. Implementation of re-usable plastic bottles and water bottle re-filling stations;
2. Improving access to recycling in the cafeteria and finding compostable alternatives;
3. Educating the school on the recycling and composting efforts at school.

We were able to reduce the amount of trash produced on campus by half and in the process increased the amount of recycling and compost.



WASTE REDUCTION/ COMPOST PRODUCTION, *FORSYTH SCHOOL*

School Team Sponsors: Susan Zareh (Primary) & Christine Torlina

Mentor: Matthew Beard, Brewer Science Inc.

Forsyth School sixth graders conducted a waste audit in this fall o 2017. After analyzing the results, it was determined that we needed to reduce the amount of food waste going to the landfill. We decided to investigate the feasibility of composting with a commercial composting company. With the help of Total Organics Recycling, the students learned about how to sort lunch food waste and compost properly. Students created Public Service Announcements about the benefits of composting to share with the Forsyth Community. Student Council members also got involved by educating peers about packing waste-free lunches.



REDUCE THE SINGLE USE!, *HOLY REDEEMER*

School Team Sponsors: Jim Biggs (Primary) & Jamie Hasemeier

Mentor: Jim Biggs, Holy Redeemer

Through a scientific approach, we identified single use trash as a problem, created a visual to explain our findings, created a marketing campaign to encourage others to pack a waste free lunch. We will roll out and hope to influence positive change and will collect new data at the end of Earth Month, April, and will report findings to our community.



CONVERSION OF SCHOOL TO LED LIGHTING,
LITTLE FLOWER CATHOLIC SCHOOL

School Team Sponsors: Lisa Eppert (Primary) & Rose Duncan

Mentor: Franklin P. Eppert, ABNA Engineering

Reinforcing to all students the importance of identifying, and following through on, energy saving opportunities in the classroom. Continuing to research cost effective ways to replace the fluorescent bulbs with LED lighting options, we worked with local companies to find savings on LED lamps, and submit for rebate dollars from Ameren UE, all designed to lower our per lamp cost to absolute best price available.



"MRH DARK DAY", *MAPLEWOOD RICHMOND HEIGHTS MIDDLE SCHOOL*

School Team Sponsors: Maria Canning (Primary) & Bill Henske

Mentor: Ryan Treacy, Washington University in St. Louis

Students learned about a "bright" new way to save energy- turn off the classroom lights! Students organized and presented "Dark Day" to their peers and recorded the energy savings. During "Dark Day", classes took place without the use of electricity.



2nd PLACE

2nd PLACE

MIDDLE SCHOOL PARTICIPANTS

2017-18 Green Schools Quest

LESS RECYCLING AND TRASH, *NEW CITY SCHOOL*

School Team Sponsors: Eric Eskelsen (Primary) & Mary McDevitt

Mentor: Angela Moore, Missouri History Museum

The sixth grade led many smaller projects and a presentation mainly focused at encouraging more reducing and reusing of resources before recycling. We also looked at ways to compost more and to more effectively recycle and compost in lounge



THE ART OF POLLINATORS, *NIPHER MIDDLE SCHOOL*

School Team Sponsors: Ellen Holley (Primary) & Dan Brady

Mentor: Molly Laycob, Saint Louis University

Students at Nipher Middle School engaged in a series of learning activities to become educated about the impact pollinators have on our greater environmental system. students met with a beekeeper and researched and grew plants that benefited from the labor of pollinators. Students also cooked up a feast using the food they grew. Once students were empowered with knowledge about pollinators, they worked toward educating others. Students created artwork to promote awareness about the subject and made changes to our school garden to focus on supporting the habitats of pollinators and other beneficial animals by building frog houses and bee hotels and planting native plants. Students also created and distributed native seed packets to the community.



NKMS R-4 REDUCE-REUSE-RECYCLE-REMOVE,

NORTH KIRKWOOD MIDDLE SCHOOL

School Team Sponsors: Chris Hooker (Primary) & Jason Moore

Mentor: Mary Fitzgerald

North Kirkwood Middle School sought to impact their school and community by reducing waste through three sustainability projects. Their GreenFill project sought to reduce the waste caused by disposable cups. The Lunch Composting Project sought to reduce waste by reusing food scraps through composting and also increase the amount recycled by educating fellow students about single stream recycling. Finally NKMS students set a big goal to remove all of the litter in Kirkwood, through their project called "The Kirkwood Clean Sweep".



DEFEAT CARBON FOOTPRINT, SAVE THE PLANET,

PREMIER CHARTER SCHOOL

School Team Sponsors: Nakesia Daugherty (Primary) & Mary George

Mentor: Michael Rodney, m2 Architecture Studio

7th and 3rd grade Quest students created an educational video to inform the entire (K-8) school about carbon footprint. We sought to measure the current carbon footprint of middle schoolers, inform them of ways to reduce their carbon footprint, and collect data on their pledge to reduce their carbon footprint. Quest collaborated with STEAM teachers to educate 8th graders on carbon footprint for the entire k-8 PCS population.



WASTE REDUCTION AT ROGERS MIDDLE SCHOOL, *ROGERS MIDDLE*

School Team Sponsors: Krista Bernreuter (Primary) & Tim Dunn

Mentor: Joyce Gorrell, EarthWays Center of the Missouri Botanical Garden

Students focused on waste reduction this year at our school and raised awareness of why reducing, reusing and always recycling is a good idea. Our goals were to begin recycling in the cafeteria and strengthen the existing recycling program in through-out the school. We wanted to educate the school community about how they can help create healthy habits for a healthy environment where we live, learn and play.



1st PLACE

3rd PLACE

MIDDLE SCHOOL PARTICIPANTS

2017-18 Green Schools Quest

WATER AWARENESS, ST. FRANCIS OF ASSISI

School Team Sponsors: Mike Herries (Primary) & Lisa Jacob

Mentor: Erin Riley, BR+A Consulting Engineers

Our 6th grade students lead a project to track, identify, map and mark storm water drain on and around our campus. We also got excited and motivated to bring drinking water awareness to SFA, eliminate plastic water bottles with the donation of a new water fill station. 6th grade and other grades increased awareness of pollutant runoff with the MSO Enviroscope Model.



HIGH SCHOOL PARTICIPANTS

2017-18 Green Schools Quest

COLLECTION OF CONSUMER WASTE, BOURBON HIGH SCHOOL

School Team Sponsors: Penny Perriguet (Primary) & Valarie McEuen

Mentors: Dylan De Scheda, Bipacco Coatings LCC &

Jill Hollowell, Meramec Regional Planning Commission

BHS began a composting project during the 2016-2017 school year. For the 2017-2018 school year we extended our project to include post-consumer waste that was collected in our cafeteria during each lunch shift.



BUTTERFLY GARDEN, THE GOVERNOR FRENCH ACADEMY

School Team Sponsors: Mr. Jeff Redman (Primary) & Mrs. Christine Stewart

Mentor: Andrea Berry, SLHN

The Green Team restored planting beds on the playground, researched appropriate native species of butterfly garden plants and planted them. The K-8th students will receive a lesson in sustainability, native plants, and have an opportunity to plant seeds in the butterfly garden and to create a sculpture for the garden from used or donated materials obtained from the Teacher's Recycle Shop.



HAZELWOOD WEST COMMUNITY COMPOSTING INITIATIVE, HAZLEWOOD WEST HIGH SCHOOL

School Team Sponsors: Erin Sind (Primary) & Kelly Taylor

Mentor: Simon Warren, EarthWays Center of the Missouri Botanical Garden

The BEE (botany and ecological engineering) club has sponsored a composting initiative starting within the high school cafeteria and with plans to spread throughout the community. The students have worked with administration to help spread the word about composting, and they have visited different classes to inform the student body about the project and composting in general. Further efforts have been made to work with the neighboring elementary school to educate the students about the benefits of composting.



KHS WASTE REDUCTION, KIRKWOOD HIGH SCHOOL

School Team Sponsors: Mandy Melton (Primary) & Phil Deist

Mentor: Greg Williams, Siemens

Looking around our school it was easy to see we lacked sustainable practices. We had a waste problem! To reduce waste at our school we needed to re-educate and design solutions making sustainability easy for our school. We implemented new recycling and composting programs, expanded the Kirkwood-Des Peres Greenfill cup, started an aquaponics growth system, are building vertical hallway gardens, designed a chicken coop, evaluated our school parking lot, and worked on repurposing small solar panels. Focusing on areas of reducing carbon waste, reducing physical waste, and repurposing of surplus materials we feel we are making our school more eco-friendly.



ROOKIE OF THE YEAR

3rd PLACE

1st PLACE & FOCUS

SCHOOL OUTDOOR CLASSROOM RESTORATION PROJECT, *PARKWAY CENTRAL HIGH SCHOOL*

School Team Sponsors: Meredith Jacques (Primary) & Jennifer Stanfill

Mentor: Rob Kennedy, EarthWays Center of the Missouri Botanical Garden

We are working on restoring the outdoor classroom space to the original plan for it to be functional and aesthetically pleasing since it recently fell into disrepair and became overgrown with weeds. We have done research for what people want to see and how we'll use it. We chose plants specific to these weeds and will begin planting this spring and work with the school to maintain it.



BEING VOCAL ABOUT EATING LOCAL , *PARKWAY NORTH HIGH SCHOOL*

School Team Sponsors: Brian Kramer (Primary) & Karen LaFever

Mentor: Ross Watson, Jacobs Engineering

Parkway North High School Students set out to educate elementary school students about how locally grown food can have a significant, rewarding impact on our environment.



GARDENS AND MARKETS AT PRINCIPIA, *PRINCIPIA UPPER SCHOOL*

School Team Sponsors: Lynne Scott (Primary) & Doug Hoff

Mentor: Spencer Ruggles, Saint Louis University

Principia conducted many projects that would fit into GSQ this year including recycling, paper towel composting, chickens and awareness, but we chose gardening and our PrinBiz market to highlight for the competition. PrinBiz market brought people from within and beyond Principia's community together at a marketplace that supported small business entrepreneurs. Our gardening project broke ground on a large garden space for our school with the aim of growing food for our dining service and giving a portion to our local food bank. A compost bin was also constructed for the garden to create soil and provide a place for garden refuse.



WASTE NOT, WANT NOT: ART RE-IMAGINED, *SAINT LOUIS UNIVERSITY HIGH*

School Team Sponsors: Anne Marie Lodholz (Primary) & Tom Zinselmeier

Mentor: Jenny Baca, JIPSI LLC

Through this exhibit featuring recycled materials, we hope to challenge the entire SLUH community to reflect, pray, and weave a story about the beauty of creation. We hope to contemplate what is meant by throwaway culture. Rather than producing waste, we must realize that we are gifted with great hope, energy, and resources. We challenge ourselves to learn how these can be molded into playful pieces of imaginative design and functional art and then to communicate this to our wider community.



INCREASING AWARENESS TO REDUCE WASTE, *ST. JOSEPH'S ACADEMY*

School Team Sponsors: Katie Lodes (Primary) & Andy Lodes

Mentor: Courtnie Kidd, Ameren

This project was conducted in order to reduce our high schools' overall waste levels. For a month, the environmental club Earth Angels educated the student and faculty through usage of PowerPoint's, info-graphics, emails, and even trivia. Data was collected before and after the education, and there was a dramatic increase of items in the recycling and a decrease of items in the trash after the education. The club also utilized organizations like TREX to recycle plastic bags, and switched the school to using clear trash bags so maintenance can easily see which bags are trash and which are recycling.



INNOVATION

2nd PLACE