

LIPSCOMB GREEN TEAM

LIPSCOMB ACADEMY

4517 Granny White Pike

Nashville, TN 37204

615-966-1783

PRIMARY DIVISION

Sponsors:

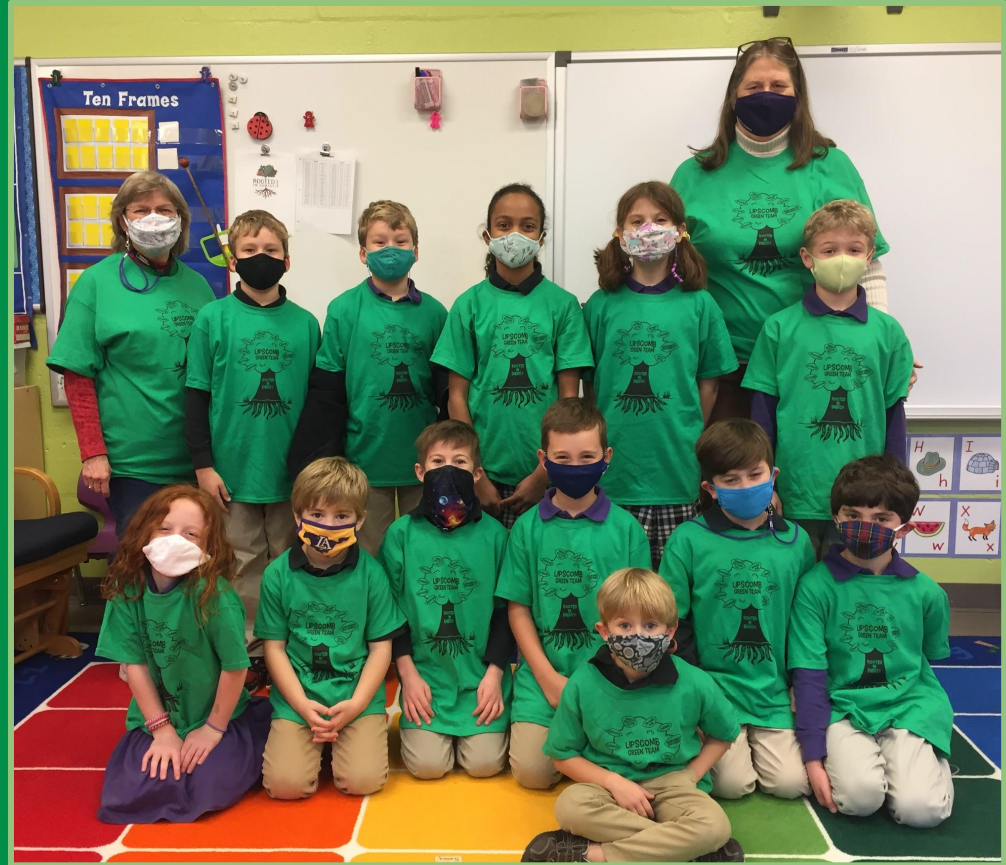
Becky Collins

Ginger Reasnov

LIPSCOMB ACADEMY GREEN TEAM

The Lipscomb Academy Elementary School Green Team is a group of K-4th grade students who regularly study and 'grow deep' to keep our school "Rooted in Energy."

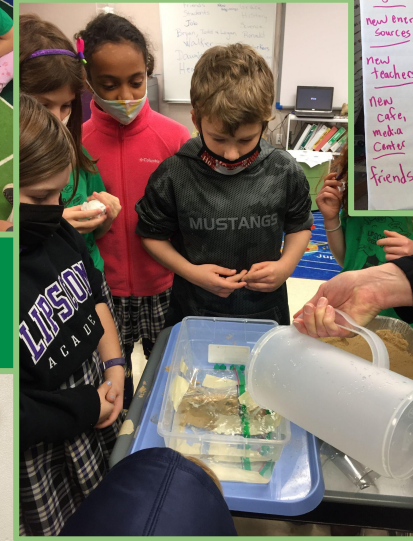
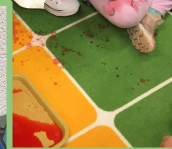
(front) Eli Millimaki, (front row) Neely Milligan, Joseph Savage, Maksim Wojtkiewicz, Parker Paden, Henry Singleton, Blake Owens, (back row) Becky Collins-Sponsor, Wyatt Archer, Ryan Archer, Jesslyn Palmer,, Eleanor Millimaki, Ginger Reasonover-Sponsor, Mark Jones. (Absent) Jordynn Violet Savage, Andrew Johnson, Skylar Starks.



Education

Green Team Meetings

New growth was achieved during team meetings when members created a public service announcement. The team dug deep in discussion of the environmental pros and cons of our new school construction. We learned about the impact of water through experimentation. The wind was not taken out of the students when they played with wind energy.

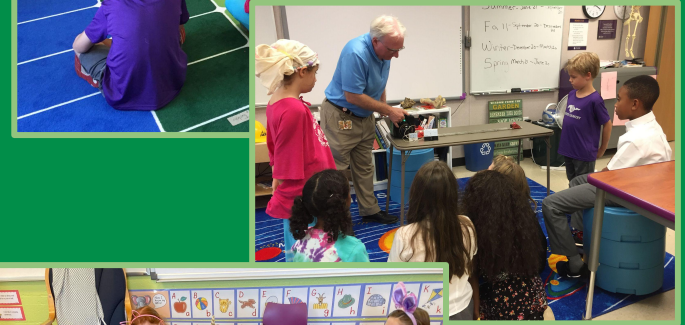


Construction		
Gains	Loss	Effects
New building	5th graders	} we got a new spot. } lots of parking next yr.
5th graders	parking lot	
6th graders	moved getting recycling bins	} moved to new spot } new proposals → but MAY cost \$! - new shed!
new energy sources	g. shed, fence	
new teachers	K. playgrounds	- new playground - VERY small
new cake, make Center	3 houses	
Friends	gross, trees, bushes	9 people directly if 31 trees down! City, animal habitat, nats, shade ? hard to get in the bldg - road What about Mr. John?

Education

Budding interest in how their world works, Green Team members learned about electrical engineering in the new school construction from a professional Electrical Engineer, Ronald Reasonover (Nashville Electric Service).

Students branched out their learning with atomic energy while using marbles to simulate splitting nuclear atoms.

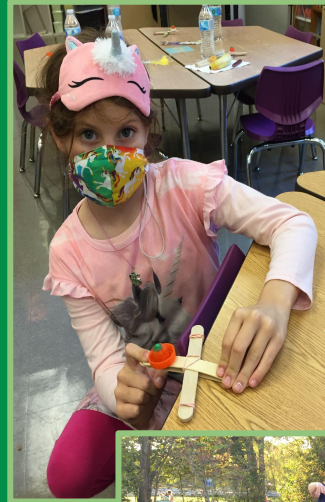


Education

Projects

Showing appreciation for our community is essential; but during the COVID-19 pandemic, it is even more important. The team collected and packed snack packs for first responders, who often are unable to stop work for a meal.

Team members created pumpkin catapults to experiment with potential and kinetic energy.

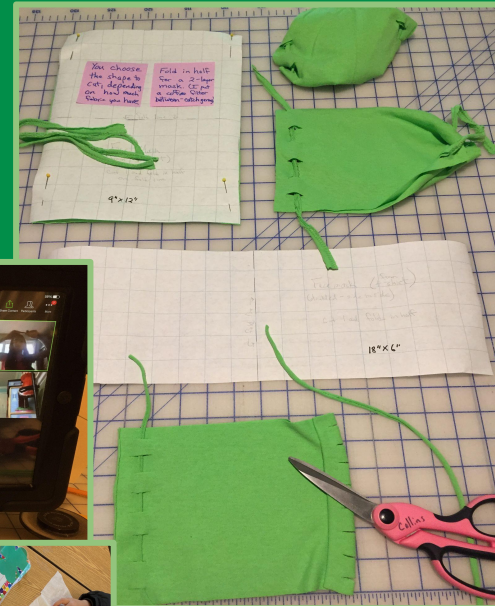
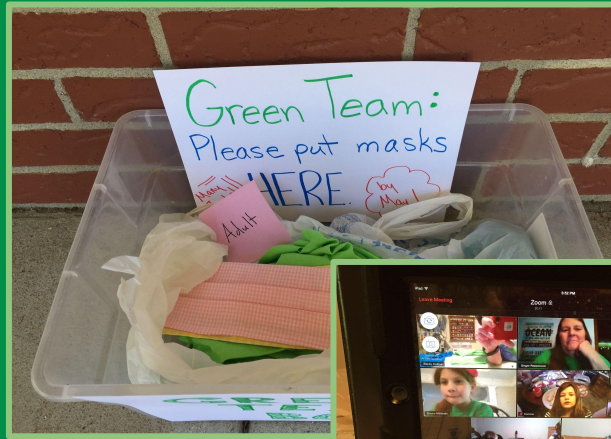


Education

Mask Making/Building Edible Nuclear Atoms

The team was rooted in the cause for safety in their community. Students learned how to make fabric masks to share with those in need. We recycled old t-shirts into masks while meeting via zoom!

Edible nuclear atom building was a sustaining treat!



Education

Biomass Studies

The team members' interests were on fire while they learned about biomass in the outdoors. Their spirits were renewed after the lesson too! (S'mores! Yum!) They were energized by the experience of discovering energy in a pumpkin.



Recycling

Regular Recycling - Pepsico

Throughout the school year, students and their families collect thousands of aluminum cans and plastic bottles to recycle through a Green Team partnership with Pepsico. Recyclables are kept out of the landfill and the team earns gift cards which are donated to those in need.

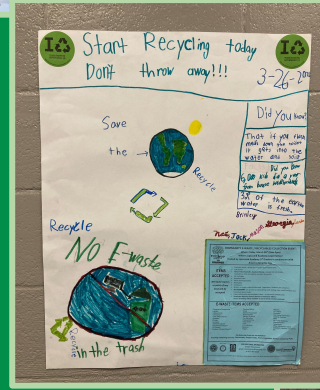


Recycling

Recycling despite new restrictions as a result of COVID-19

Nothing could sway the team from pushing ahead with their recycling this year.

Because of COVID-19, #5 containers were not accepted for recycling in Nashville. The Green Team assisted in collecting over 150 lbs of #5 containers, keeping them from the landfill. Also, containers like toothpaste tubes, dental floss, crayons, and markers were not accepted. The team rose above this problem, finding ways to continue the use of these items past their original intent. For example, dried out Crayola markers were placed in water to create watercolor for art classes and then the left over casings were sent for recycling.



Recycling

America Recycles Day

With a new year in bloom, the LAES 3rd Grade and Green Team hosted a community recycling event in March. America Recycles Day is typically scheduled in November; however, Covid-19 changed the timing. 310 vehicles from the community brought loads of electronics, outdated medicines, paper goods, and more. Many thanks to our partners: The Tennessee Attorney General's Office, Shred-it, Metro Nashville Police Department, Omega Electronics Recycling, Thrift Smart and Pepsico! Thousands of items were recycled that day



Recycling

Award

Recycling is an evergreen focus of the Green Team. They were named 2020 Recycler of the Year by the Tennessee Recycling Coalition.



Outreach

Forestry Workshops

New growth happens when we discover nature in creative ways. The Green Team learned about tree growth by making tree cookies. Nothing is sweeter than a food-related lesson!

Mrs. Reasonover and Miss Collins led sessions at a TN state forestry workshop, teaching educators about tree rings and 'life events'.



Outreach

Arboretum

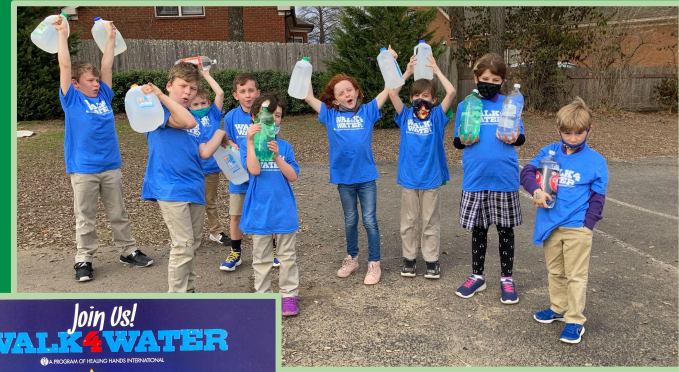
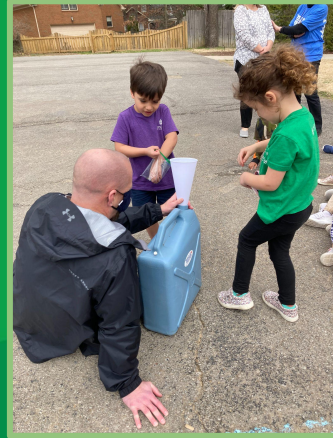
It's only natural that the Green Team partnered with a Green team Alumni, Garrett Warner, in his Eagle Scout project on our campus. He, along with Professional Landscaper Josiah Lockard and Biologist, Emily Jones, led us in work which will soon allow LAES to be certified as a Level 1 Arboretum.



Outreach

Walk for Water

With great strength, the Green Team and student body carried water like the children in underserved countries, who spend their days walking to a water source. Over \$500 was collected to be used for a well repair.



Environmental Responsibility

Riparian Zone Clean Up

Team members discovered the impact of riparian zones on the environment. Trees and native grasses around the creek help prevent flooding and provide habitat for 'campus critters' and migrating animals. The team cleared trash and playground equipment from the creek.



This sight, on the northern side of our campus used to be a thicket. It has been cleared for the planting of 2 tree groupings for the Borer Beetle project.

Insecticide Free Zone
No Roc e Insecticida

Flatheaded Borer Landscape Study Site

This tree installation is part of a multi-state study to evaluate insecticide free methods of landscape planting to protect trees from wood boring beetles.



2/26/2021

Dear Ms. Pearson:

Thank you for taking the time to meet with me and Mr. Josiah Lockard regarding our landscape ecology project. As we discussed, this partnership would allow Lipscomb Academy students to participate in a multi-state research project funded by the USDA-NRIS Specialty Crop Research Initiative (SCRI). This project, *Flashboard: Berry Management in Specialty Crops* (grant #2020-51183-2595), was awarded \$6 million to develop new tools for managing insect-borne diseases in crops such as in strawberries, raspberries, blueberries, and blackberries. Over the next 3 years, I will lead a nationwide team of 24 researchers from Tennessee State University, University of Tennessee, Rutgers University, North Carolina State University, Clemson University, University of Georgia, USDA-ARS Byron, University of Florida, Texas A&M, University of California, and Oregon State University to achieve these goals. We would love for Lipscomb Academy to be part of this endeavor.

As part of this project, we are looking for locations to host tree plantings designed to protect trees from heatstroke burns. These benefits are native to North America and normally lay eggs in branches in the canopies or old dry lying trees. They also will lay eggs in newly planted trees since such plants are weakened due to root disturbance from the transplanting process. The purpose of this work is to determine whether trees in landscapes can be protected from wood borers through landscape design elements instead of pesticide applications. Similar methods have proven effective in nursery production and we want to determine if these concepts will translate to landscape settings. As part of this project, we will provide plant material and landscape design advice to our clients and we will provide pest control services at your school. We will provide educational materials and supplies to your classroom to collect data on the plantings. This data will be used to evaluate the effectiveness of our designs. We will also provide printed signage for the two tree islands to explain their significance. If any trees are damaged, they will be removed at no cost to the school.

As a pilot program, I propose planting two islands of five red maple trees each at Lipscomb Academy in locations of your choosing. In the future, additional plantings can be added if the Lipscomb community would like to host additional tree plots. Mr. Lockard will provide planting designs for approval by the school. Our target date for planting is around Arbor Day, the last week in April or first week of May.



Please let me know if you have any additional questions or concerns. I look forward to working with the staff and students of Lipscomb Academy on this project.

Sincerely,

Dr. Karla Michele Addesso
Associate Professor
kaddesso@trtstate.edu
931-825-8255



Flatheaded apple-tree borer adult, tree damage, larva tunneling and adult emergence