



Teaching *for*
TRANSFORMATION

Pollution Control Third Grade Science

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Harding Academy of Memphis

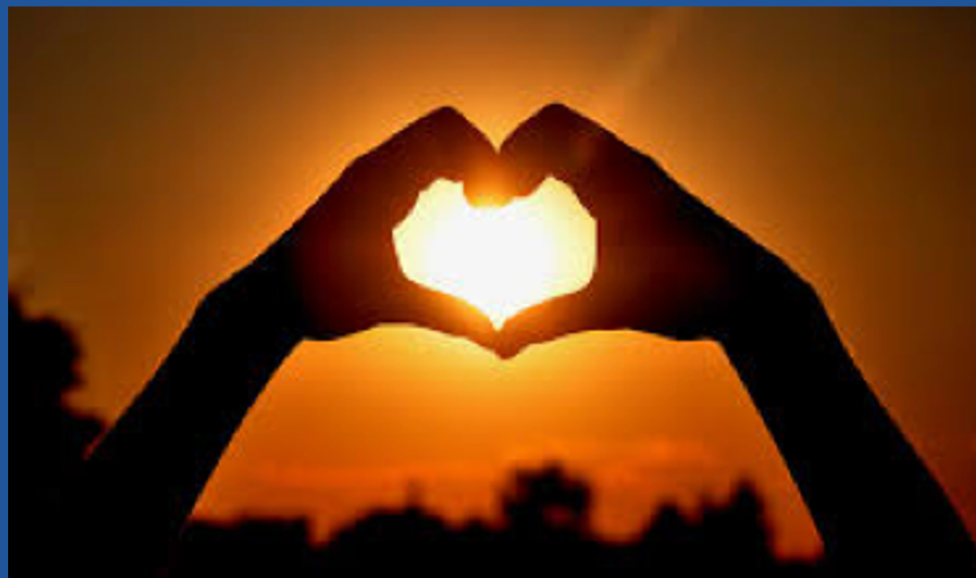




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Deep Hope:

My deep hope is that you will love God, see Him in all things,
and shine His light to others.





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Essential Learning Targets:

- ◉ I can see God's power in the creation of the universe and our unique
- ◉ planet.
- I can evaluate how pollution affects Earth, people, animals, and the
- ◉ environment.
- I can participate in a solution to reduce the impact of pollution on the environment.



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Essential Curricular Outcomes:

LS4: Biological Change: Unity and Diversity

- 1) Explain the cause and effect relationship between a naturally changing environment and an organism's ability to survive.
- 2) Infer that plant and animal adaptations help them survive in land and aquatic biomes.
- 3) Explain how changes to an environment's biodiversity influence human resources.



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Habit(s) of Learning:

- Joy- Filled Collaborating

Students were SO happy to be outside and feel involved in helping their community.





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See God's Story:

Creation- God created a beautiful world and said, "It is good." He put man in charge of the Garden of Eden.

Fall-Because of man's sin he was banished from the Garden of Eden to toil the ground.

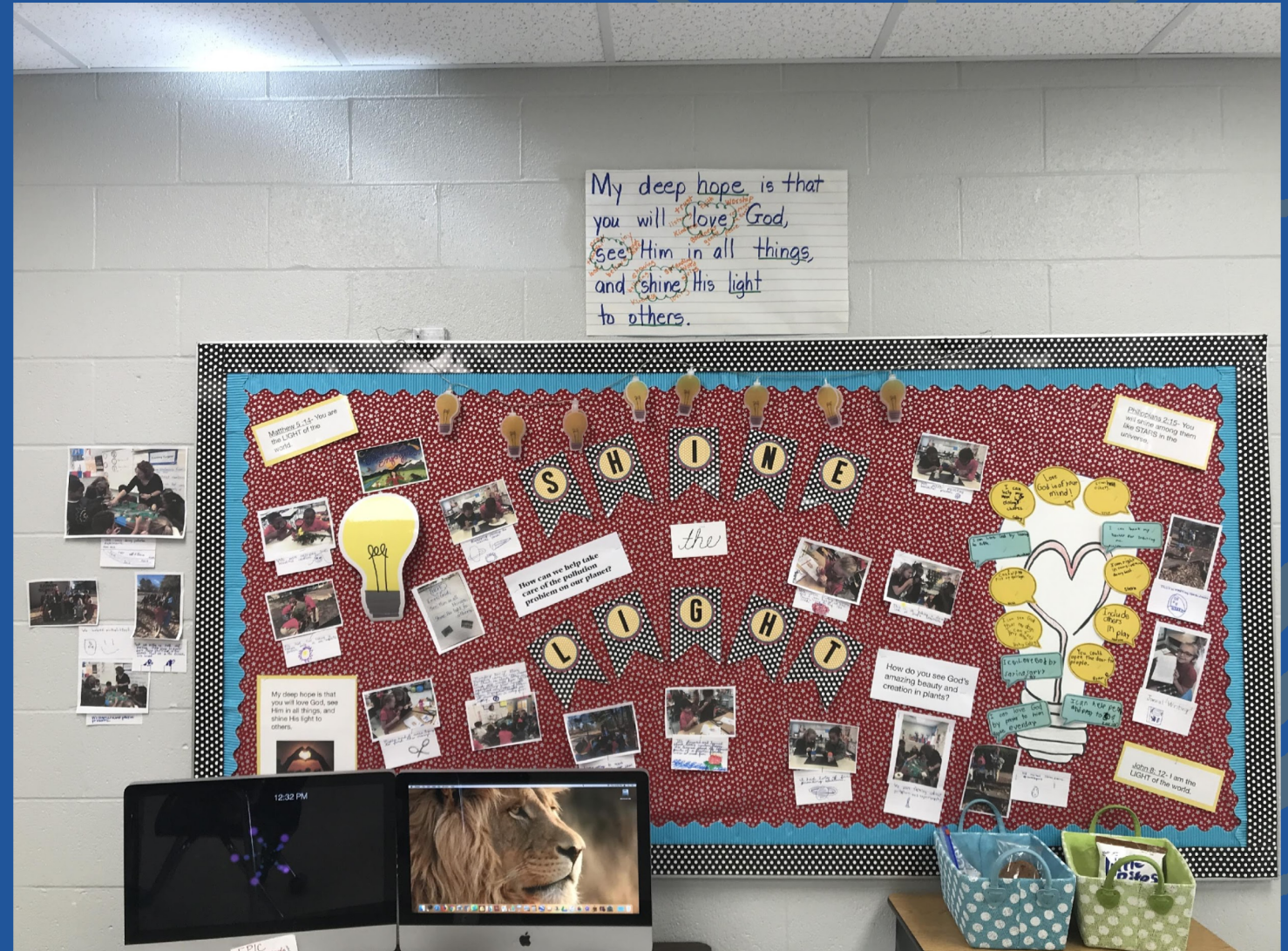
Redemption/Restoration- God wants us to live a better story. He also called us to take care of the Earth that He created.





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Storyline:
Shine Your Light





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Throughlines:

Earth Keeper- Students worked together to help clean up the neighborhood and school grounds.

Creation Enjoyer- Students loved doing something outside of the classroom and spending time outside to learn about God's creation.

Servant Worker- Students felt like they were important parts of the community by marking storm drains in the neighborhood.





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Formational Learning Experience:

Real needs: The city of Memphis has an ordinance to keep storm drains free from litter and debris to keep pollution from getting in streams, lakes, and rivers.

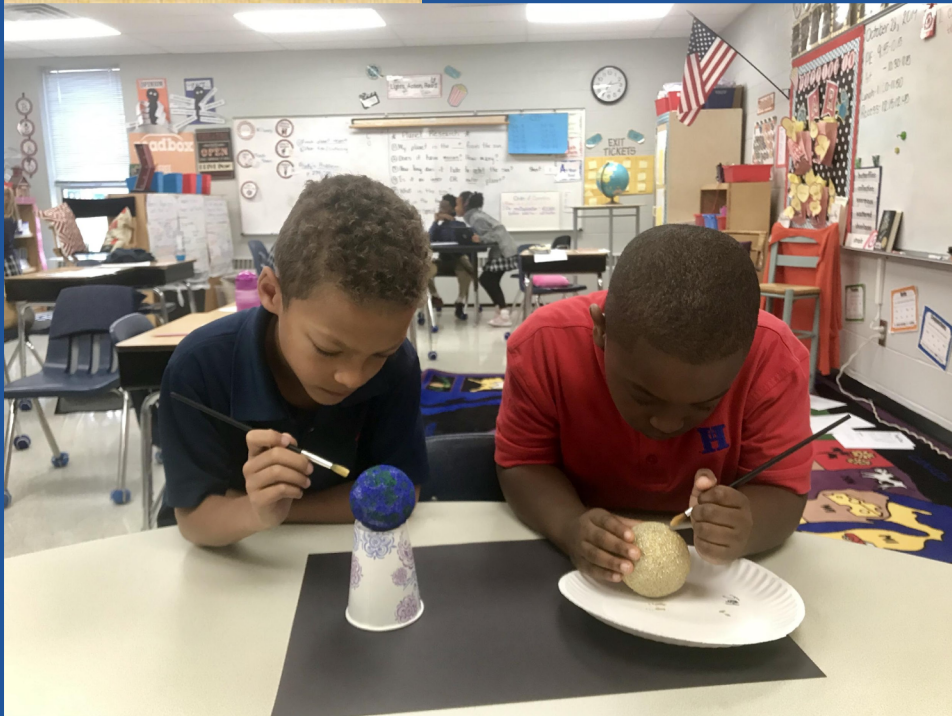
Real people: We partnered with the Clean Memphis organization and helped our local neighborhood.

Real work: The real work was marking 16 storm drains in the local neighborhood and picking up trash in the neighborhood. We have continued to pick up litter on campus and have another project this spring planned with Clean Memphis.



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INVITE



Students were invited into the study by painting and researching a planet in the solar system, visiting the planetarium at the Pink Palace, and then focusing on unique qualities of planet Earth and how we can care for it.



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NURTURE



Students were nurtured through reading and responding to a book about pollution and then participating in a hands-on activity about the watershed issue. We learned about how pollution goes toward storm drains and the rivers.



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EMPOWER:

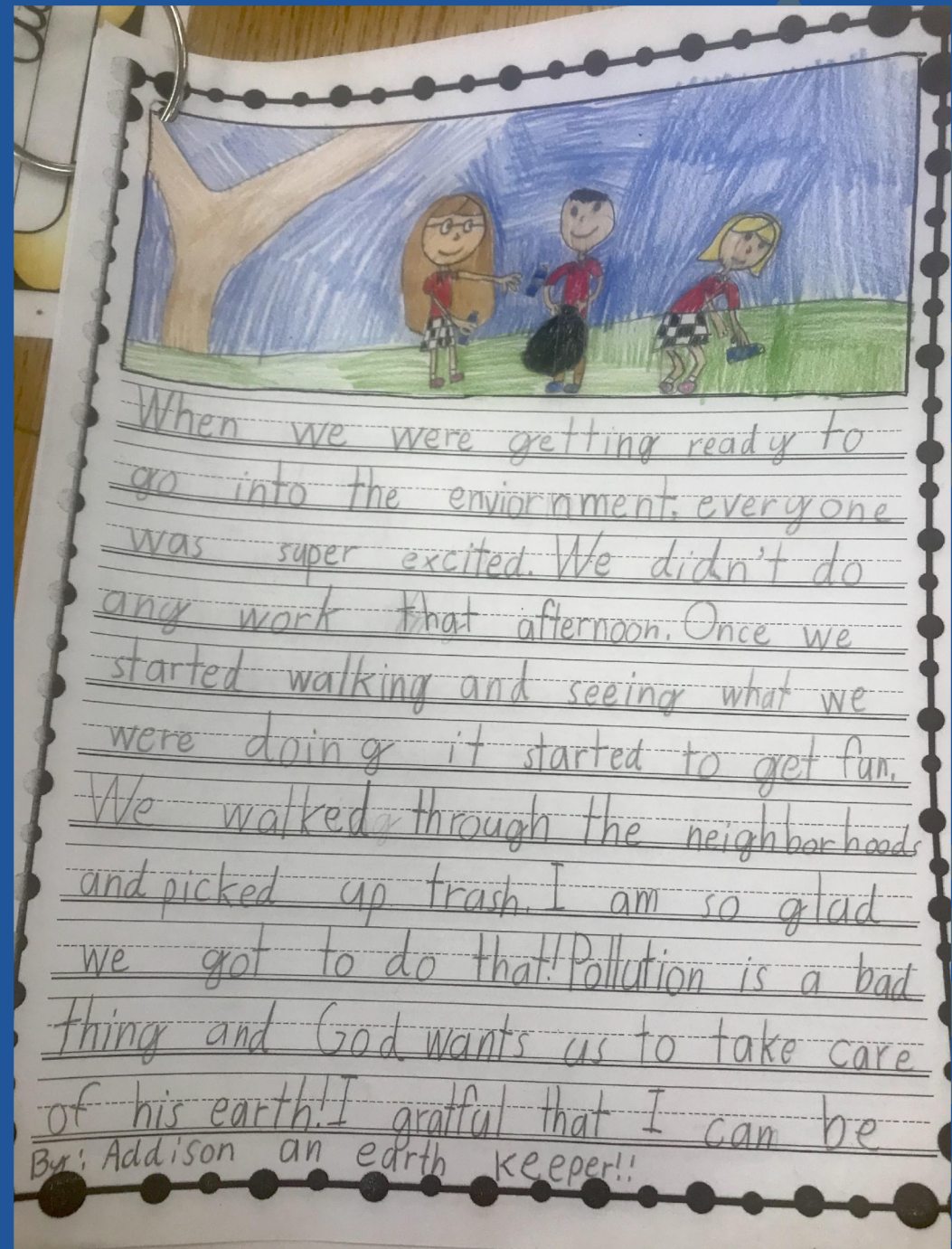
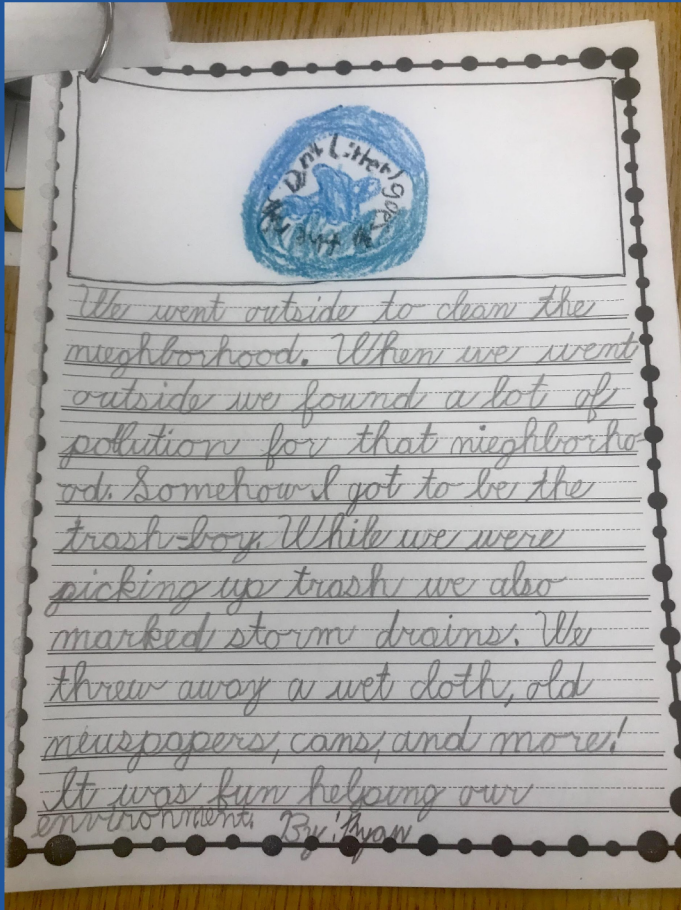


Students were then empowered to go out into the local neighborhood and label storm drains so that people are aware to keep leaves and trash out of the storm drains. We also picked up litter in the neighborhood.



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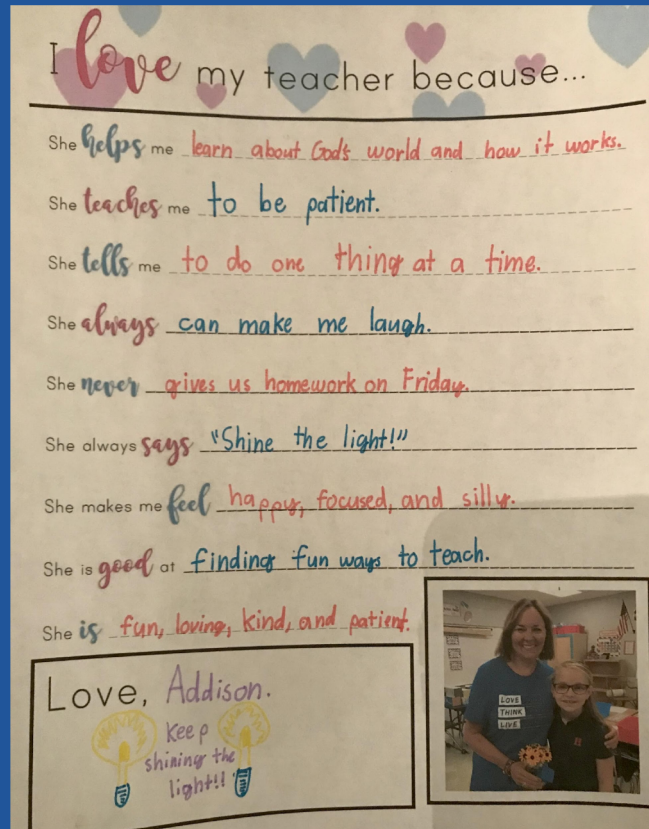
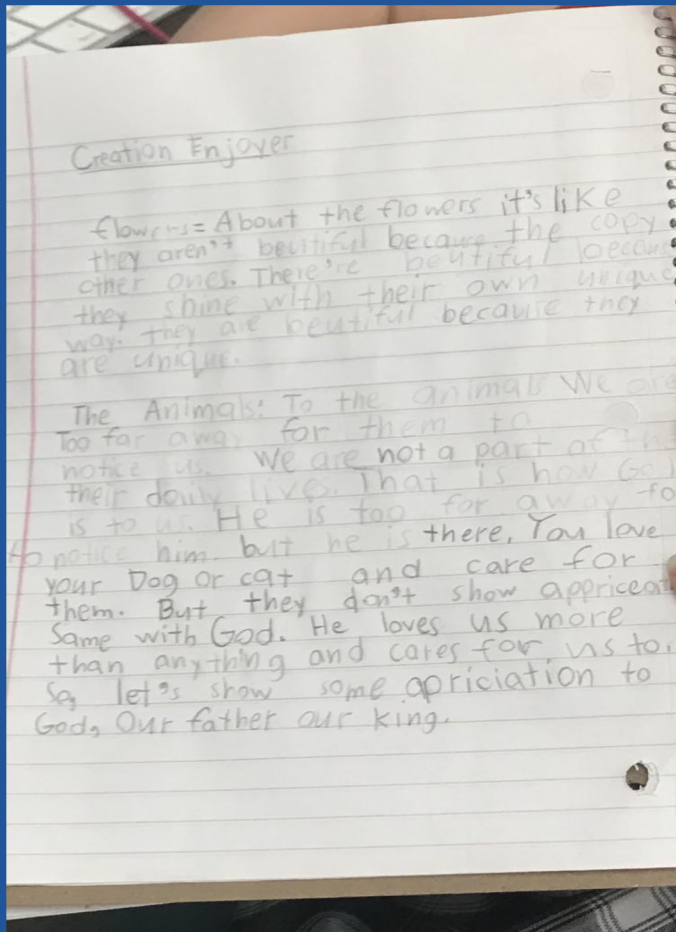
Student Reflections:





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Student Reflections



Issue No. 1

NATURE NEWS

TOO MUCH LITTER!!!

Our planet is big and beautiful. We need to love and respect it. So we need to take very good care of it. Imagine our world in the beginning when God first created it. Everything was beautiful and perfect!! There were no factories, no smelly cars, no air pollution, and nothing but plants and animals. Then God put humans on earth to take care of his beautiful creation. We have not been doing our job to protect earth. Look outside. What do you see? Do you see litter? If so, go pick it up and if you can recycle it. (Wash your hands right after, of course!) I will do my part but you must too, and maybe, just maybe, it will work!!





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Teacher Reflections:

I love that the students have found ways to shine their lights as third graders by being active in their community NOW and not waiting until they graduate. They feel called to help take care of God's earth, and I am amazed watching them involved in that. PLUS, they are actively learning about the environment and the watershed model at the same time. It's a win-win situation!





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Additional Information to tell the story:

[www. cleanmemphis.org](http://www.cleanmemphis.org)



To continue with our story...we have worked on campus to pick up litter. (We planned a field trip in April to ride the riverboat and attend an environmental class at Bass Pro to learn more about other aspects of environmental education. We planned one more spring service project with the Clean Memphis organization in the month of April.)



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