

Pollution Control Third Grade Science

Valarie Matthews Harding Academy of Memphis





Deep Hope:

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





Essential Learning Targets:

I can see God's power in the creation of the universe and our unique

o planet.

I can evaluate how pollution affects Earth, people, animals, and the o environment.

I can participate in a solution to reduce the impact of pollution on the environment.



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) 2) Infer that plant and animal adaptations help them survive in land and aquatic biomes.
- 3) 3) Explain how changes to an environment's biodiversity influence human resources.



Habit(s) of Learning:

• Joy- Filled Collaborating

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





See God's Story:

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

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

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





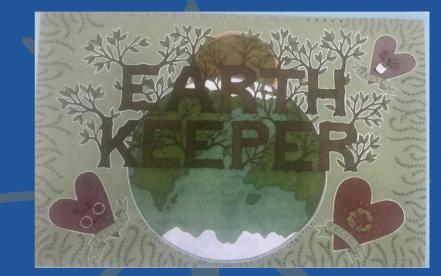
Storyline: Shine Your Light







Throughlines:



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

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

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



Formational Learning Experience:

<u>Real needs</u>: 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.

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

<u>Real work</u>: 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.



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.



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.



EMPOWER:



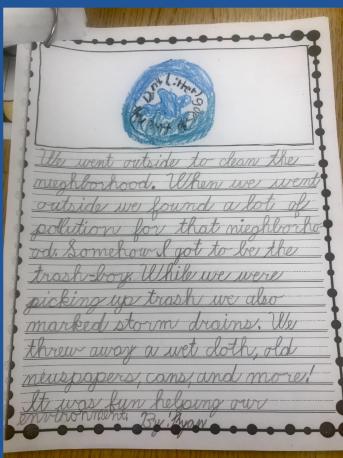


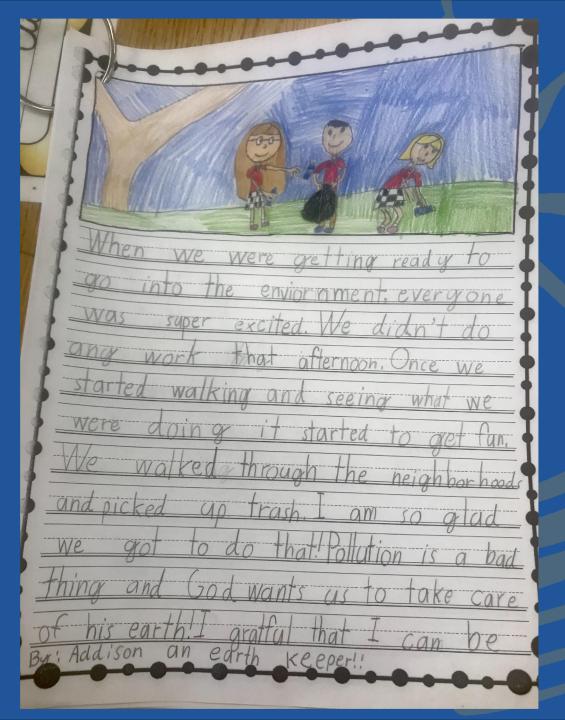


Students were then empowered to go out into the local neighborhood and label storm drains so that people are aware to keep leaves and trash out of the storm drains. We also picked up litter in the neighborhood.



Student Reflections:







Student Reflections

| Creation Enjoyer |
|--|
| IS PICO 6 |
| Elowers= About the flowers it's like they aren't bentiful because the copy a other ones. There're bentiful because they shine with their own unique they shine with their own unique they shine bentiful because they may they are bentiful because they |
| are cinique. |
| The Animals: To the animals We are The Animals: To the animals We are |
| The Animals: To the animate two far away for them to notice us. We are not a part of the their douby live. That is how bo their douby live. That is how bo to be the stop for away for s to be highly be is there, Tay lave |
| to police him but he is there. Tan lave |
| your bog or cat and care for your bog or cat and care for them. But they don't show appricean Same with God. He loves us more than anything and cates for us to. Sa let's show some opticiation to God Our father our king. |
| So let 25 show some apriciation to God, Our father our king. |
| • |
| |

I we my teacher because ... She Gelps me learn about Gods world and how it works. She teaches me to be patient. She tells me to do one thing at a time. She always can make me laugh. She never gives us homework on Friday. She always says "Shine the light!" She makes me feel happy, focused, and silly. She is good or <u>finding fun ways to teach</u>. She is _fun, loving, kind, and patient. Love, Addison. shining the light!! /

Issue No. 1

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!!





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!

Shine YOUR Cight



Additional Information to tell the story:

www. cleanmemphis.org

Memphis Transformed January 27 · 😵

Repost from Clean Memphis.

"Harding Academy of Memphis recently learned about watersheds and how litter can get into our rivers and oceans through the Memphis storm drain system. ⁽²⁾ These 4th graders patrolled their school's neighborhood and marked over 15 storm drains in one afternoon! Thank you, Harding Academy! ⁽⁵⁾"









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.)

