



Highly Commended

Science Writing

Year 3 - 4

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From trash to treasure



From trash to treasure

What is Waste Management?

Trash and waste are discarded materials from industries or houses. Waste management means finding a way to recycle the trash and waste in an efficient way. It takes a lot of planning, transportation, and effort to reduce environmental impacts.

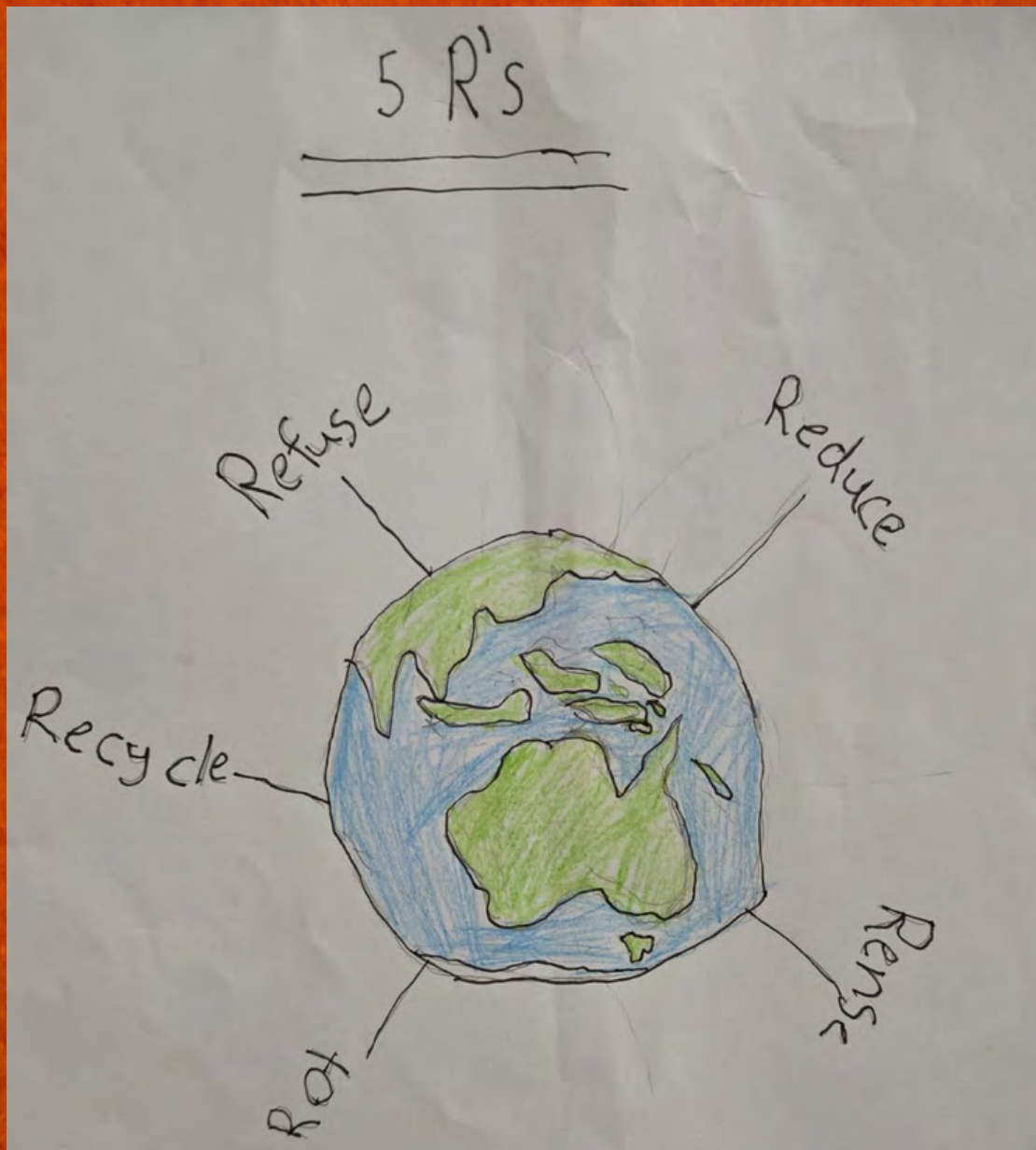


Figure 1: Created by me

Importance Of waste management?

- It helps us make a good environment.
- We can make resources from recycling.
- Reduces expenses.
- less damage to the environment.
- it will help for the future.

My investigation turning waste into valuable solution

Different types of waste can turn into other valuables.



Figure 2: My photo in airport



Figure 3: Roll up back side Austin

I saw three trash bins in the airport. They were paper, plastic and can and bottle bins. It was a good solution to make sure not everything went to the landfill.

In modern days, a lot of items include recycled plastic. In this Roll ups box, the outer wrapper was made out of 85% of recycled plastic, which is good.



Figure 4: Bin to collect soft plastics

In Woolworth's, I saw a bin where we can return soft plastics. This is a good way that the community can contribute to the on going issue of plastic bags.



Figure 5: Article about the oil issue in drains

I saw an article come with my dad's water bill. It said not to pour oils in the drains as it can clog the drains. This paper was a good way to bring information to the public.

When I went to the Osaka Aquarium in Japan, I saw posters about how plastics can affect animals in the ocean. I felt so sad for these poor animals. There are pictures if you look below.

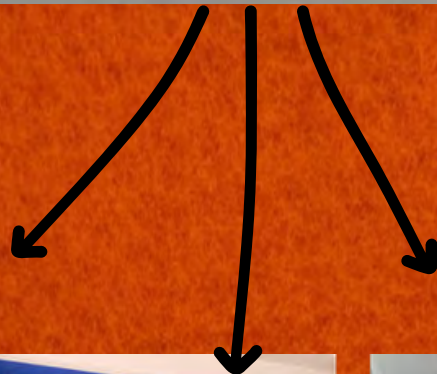


Figure 6: Osaka Aquarium

How is science shaping waste into something valuable?

Different types of waste can turn into other valuables

Electronic waste: scientists turn old and used electronics into other forms, especially for industries and factories, by using heat and chemicals



Figure 7: E-waste

Plastic waste: Some plastics are collected, and turned into new things, which is called recycling.



Figure 8: My library book about Plastic Waste
Austin
Oliphant Science Awards

Organic waste: Waste that is like food scraps, garden trimmings, and manure can be recycled/reused as compost. This is a rich fertiliser rather than greenhouse gas in landfill.



Figure 9: Organic Waste

CO₂ waste: Scientists turn the carbon dioxide and biomass into other materials, synthetic fuels or energy.

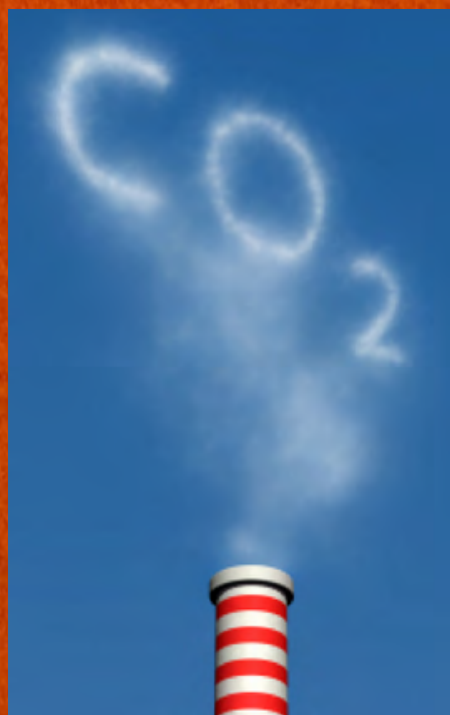


Figure 10: CO₂ Waste

The latest technology used-29 April 2026

Scientists are advancing a promising solution to two of the world's biggest challenges—plastic pollution and clean energy—by transforming waste plastics into valuable fuels using sunlight.

Inspiration

Do you know who Australia's queen of waste is? It's Veena Sahajwalla. She inspired me, and from now on, I will be more environmentally conscious and more aware. One person's trash is Veena Sahajwalla's treasure.



Figure 11: Veena Sahajwalla

Conclusion

Overall, we must all care for the environment by recycling and never throwing it away. As Veena Sahawalla said, "we must turn trash to treasure." I learned from this science writing that waste is treasure not bad. We need a better future always remember to reduce, reuse, and recycle.

To: EVERYONE

Hello everyone!

Thank you for reading my report. If you have seen plastic and other waste, it's really bad. We always need to recycle a lot. Animals, especially marine animals, are dying because of the waste.

If you want to help the marine animals, put all the waste you make in the bin. Some places, including shopping centres, have special bins that you can put in after eating food. We can recycle the food waste by putting it in the garden and turning it into compost. It isn't only Earth that has waste. Space also has plenty of waste. It comes from the leftover parts of the spaceship. Clothes also need to be recycled. I will let others reuse my old uniform and other clothes by giving them to other people and letting them reuse them, instead of buying a new uniform. I have a few old books that I don't use anymore and give it away to other people, so that we can save paper. The toys and other stuff I don't use anymore can be given to family friends. Small changes can make a big difference in saving the Earth. We only have one Earth, so we need to save it.

Let's get a new world where everyone helps out by recycling!

Kind regards,
Austin Bosco

Word Count: 669 Words (excluding title, headings, bibliography, images, acknowledgement)

Acknowledgement

My sister helped me format my text with Canva. I learned how to use some tools in Canva.

Bibliography

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https://kids.kiddle.co/Veena_Sahajwalla
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Youtube:

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2. Importance of Recycling - Animated Video For Kids
3. Food Waste: The Hidden Cost of the Food We Throw Out | ClimateScience #9
4. What if We Stopped Recycling? 🌱 Importance of Recycling | Waste Management | Recycling Process
5. What is E-WASTE Pollution? | What Causes Electronic Waste? | The Dr Binocs Show | Peekaboo Kidz
6. What is E-waste | E-waste for kids | Causes of electronic waste

BOOKS:

1. An Usborne flap book, "See inside why plastic is a problem", written by Matthew Oldham and Lizzie Cope
2. Green Kids: Recycling, written by Neil Mois
3. Say No to Plastic Waste, written by Carole Crimeen and Suzanne Fletcher
4. What a Waste, written by Jess French

Figures / Images

1. Created by me
2. Me in the airport
3. Roll Ups back side
4. Bin to collect soft plastics
5. Article about Oil in Drains
6. Osaka Aquarium
7. E-waste
8. Plastic Waste
9. Organic Waste
10. CO2 Waste
11. Veena Sahajwalla