

Waste Reduction by The Numbers

School Waste Audits For Sustainable
Growth & Development

What is a Waste Audit?

Survey of a facility's waste stream.

Sort items, record & analyze data.

Identify items thrown away, recycled or diverted, and sort by volume.

Learn how types of waste are managed

Waste reduction opportunities and disposal.



Waste Audits & School Curriculum



Meets NJ Student Learning Standards for Science (NJSLS-S) curriculum requirements.

Develop student understanding of natural resource management.

How solid waste is managed locally and what recycling opportunities exist.

Students develop their math, science and language arts skills through data analysis and written/oral presentations.



World Waste by The Numbers

We generate
2.01 billion
tonnes of
Municipal Solid
Waste/year.

33% not
managed in
environmentally
safe manner.

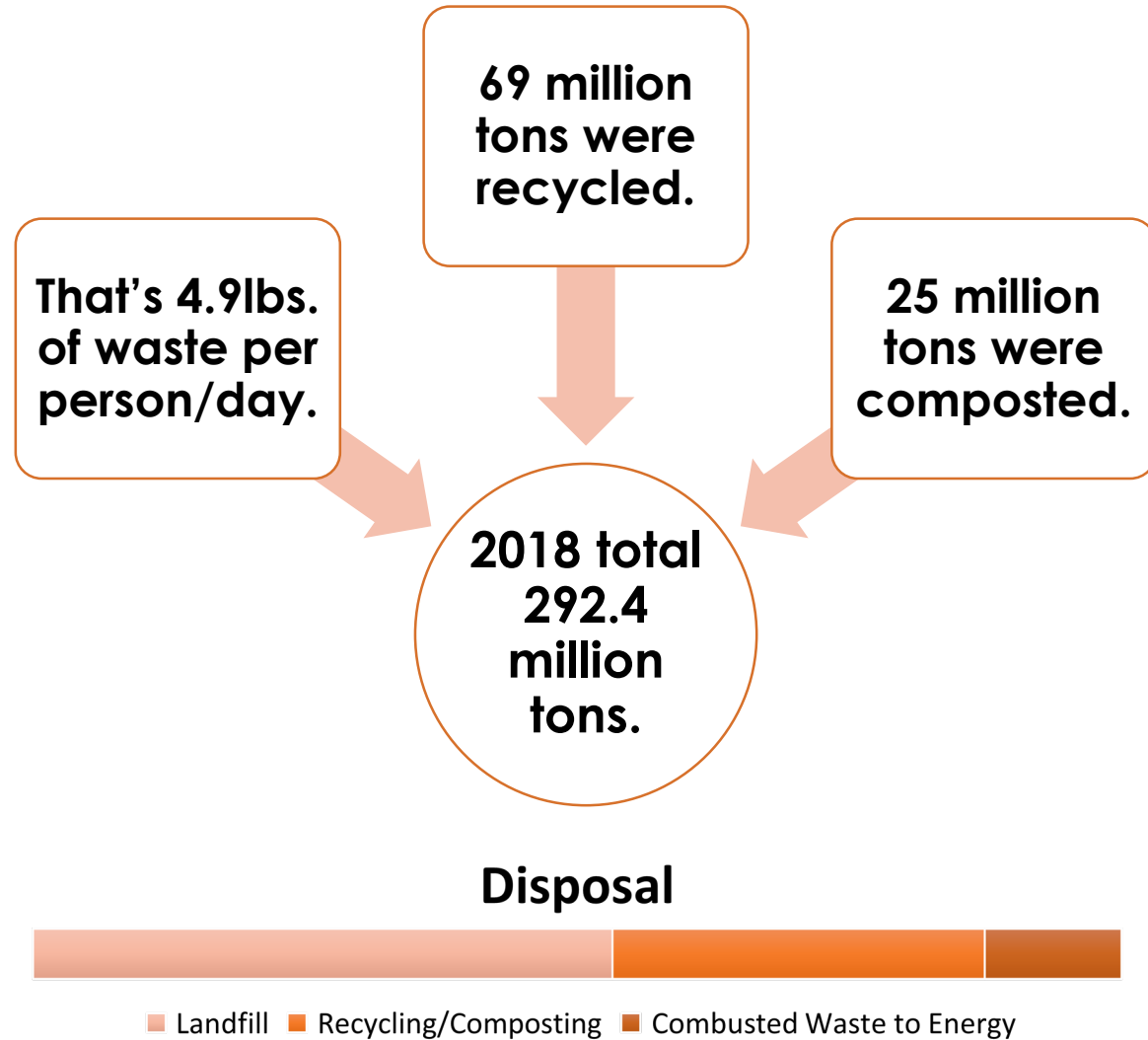
Global waste
volume
projected to
double to 2.3
billion tonnes in
2025.

Waste
generation
expected to
grow to 3.40
billion tonnes by
2050.

Center for International Law, 2017



United States of Waste



4% of the world's population, producing 12% of the world's waste per year. Halpern, 2019



Impact of Developing Countries



Waste, much of it plastic, in the Muara Angke neighborhood of Jakarta. Image by Jonas Gratzner for Mongabay.

Produce lower levels of waste.

Higher proportion (50%) organic.

Highest in developing island nations, where tourism plays a large role.

“Recyclables” from Developed Countries shipped across world overwhelming poorest nations.

Jan. 2021 U.S. exported 30+ million lbs. of plastic scrap to Malaysia, Vietnam, and Indonesia. Statista

What Happens to our Plastic

We generate 34.5m tons of plastic waste/year, enough to fill Giant's stadium 1,000 times.

According to plastics industry, it goes to a factory to be transformed into something new.

100,000s of tons of US plastic shipped yearly to poorly regulated developing countries.

Found: Cheetos bags, Walmart aisle markers, plastic ShopRite bags from NJ supermarket, urging people to recycle.



Nguyễn Thị Hồng Thắm, a 60-year-old Vietnamese mother, living amid piles of grimy American plastic outside Hanoi is paid \$6.50 a day to "recycle" plastic.

Photograph: Bac Pham/The Guardian June, 2019



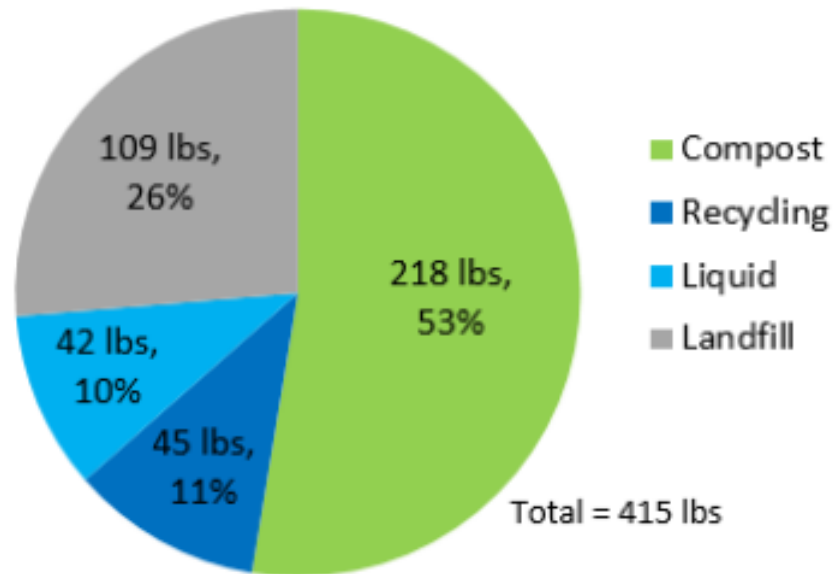
SUSTAINABLE DEVELOPMENT GOALS



- Established 2015 by the United Nations and adopted by 193 countries.
- Goals for developed/developing countries to protect planet.
- EPA aligns waste reduction goals to meet SDG goals' 2030 deadline.
- EPA Sets National Recycling Goal & Food Waste Reduction of 50% by 2030.

Composting is Climate Action

Lunchroom Waste Audit 2/24/2020



- Keeps food waste and other organic materials out of landfills.
- Builds healthy soils that sequester carbon from the atmosphere.
- Zero waste programs can avoid 18.4 metric tons of greenhouse gas emissions year.
- Prevents the melting of 55 square meters arctic sea ice. Seven Generations Ahead

Reduce Waste Today to Change Tomorrow!



BioCycle November 2013 Community Composting in New York City

Evaluate with a waste audit.

- Involve parents, students & staff.

Find waste reduction opportunities

- Start a compost program at home and/or school.
- Join recycling challenges.
- Try reusables.
- Compost outdoors or indoors.

Think green

- Grow plants in your class.
- Add a garden.
- Eat with the seasons.

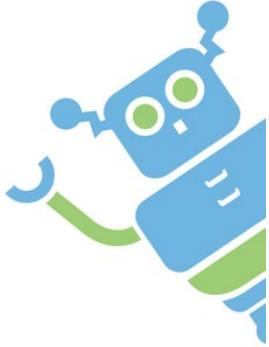
Mitigate

- Organize clean-ups
- Give away trees
- Do plantings

Be The Change You Wish to See in The World! Ghandi



Helping Kids and the Environment



Dixon Classroom Free Recycling Program



Find a drop-off

Drink Pouch Free Recycling Program (Drop-Off)



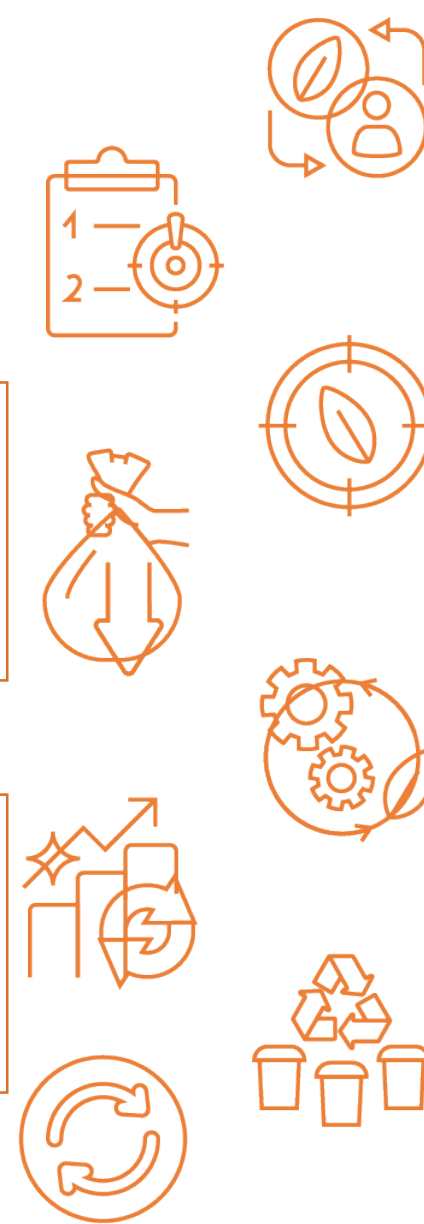
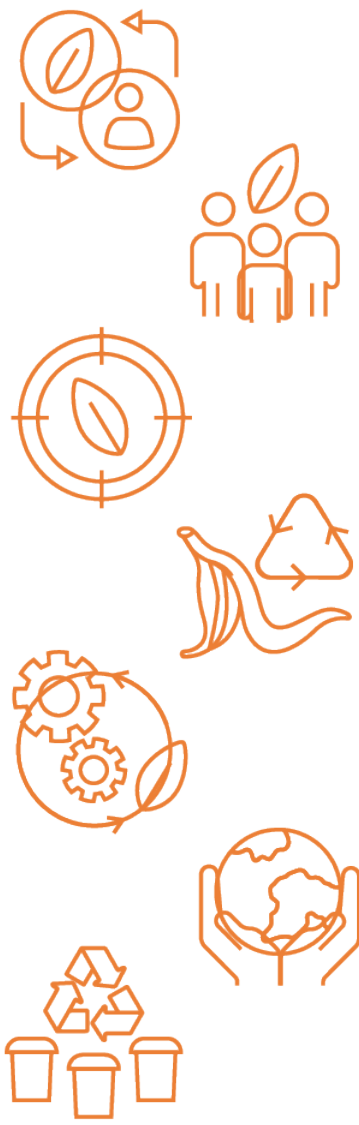
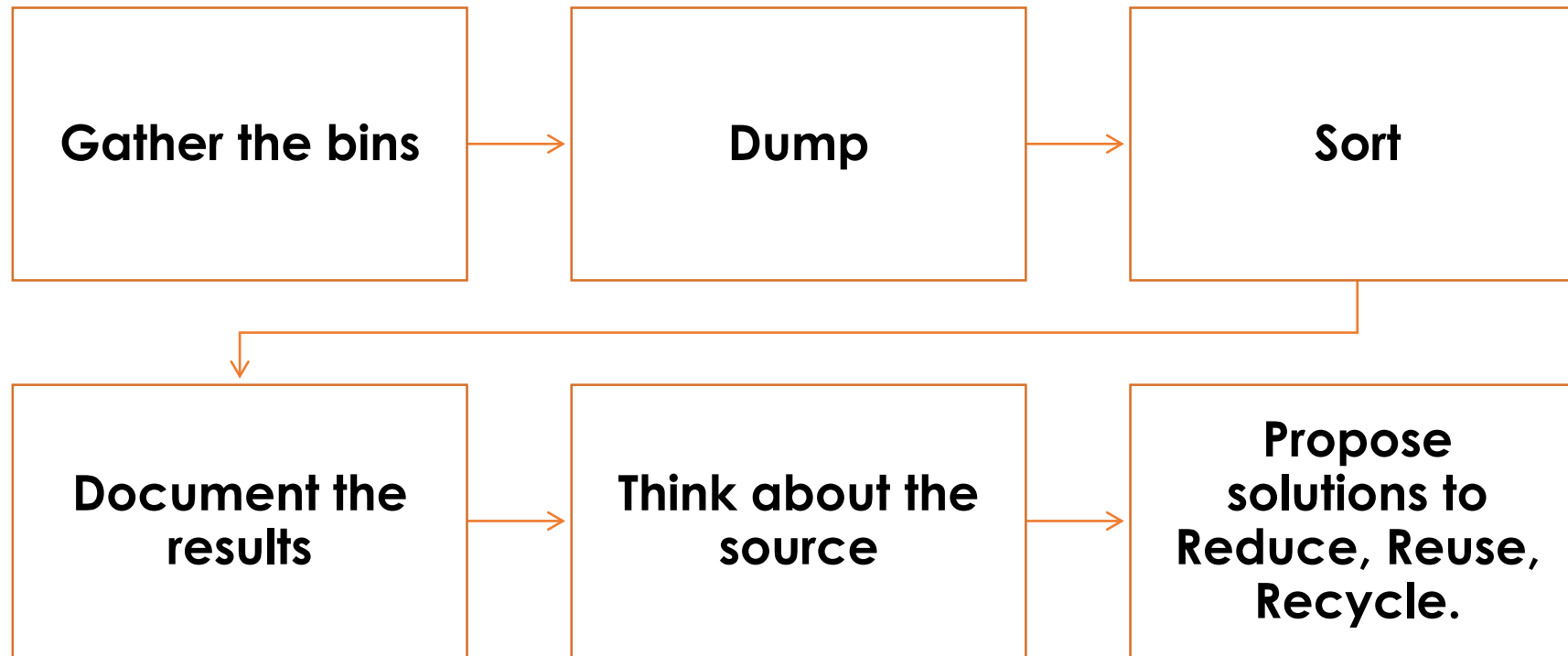
Entenmann's Little Bites® Pouch Free Recycling...



Activities + Games



Let's get to waste!





Thank you!

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@ocreycles



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