Food Waste

LESSON PLAN

NEXT GENERATION SCIENCE STANDARDS

K-ESS3-3 Earth and Human Activity: Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.*

5-LS2-1 Ecosystems: Interactions, Energy, and Dynamics: Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.

MS-LS2-3 Ecosystems: Interactions, Energy, and Dynamics: Develop a model to describe the cycling of matter and flow of energy among living and nonliving parts of an ecosystem.

OBJECTIVES

The student will be able to learn about how much food is wasted in the United States.

The student will be able to create their own compost jar.

ACTIVITIES

- The student will watch this video to introduce the issue of food waste:
 - https://ninenet.pbslearningmedia.org/resource/ee18-sci-foodwst/kids-go-green-reducing-food-waste/
- With their parents' help, the student will create a compost jar to learn about how compost can break down waste so it doesn't sit in a landfill (complete directions here: https://www.tomsofmaine.com/good-matters/thinkingsustainably/activities-to-teach-composting-for-kids) under "Craft a Soil-airum"
- The student will collect: a glass jar, soil, newspaper, leaves/grass clippings, a permanent marker, and fruit/vegetable peels and cores.
- The student will combine the materials to make a compost jar according to the directions at the link above.
- The student will keep a journal at least once a week about what they notice happening in their compost jar. This can include writing or drawings or both.
- The student will track the compost's level every two weeks.
- After 12 weeks, the student can help the parents transfer to soil to their yard or garden.

OPPORTUNITIES FOR DIFFERENTIATION

YOUNGER STUDENTS

OLDER STUDENTS

- Students can have additional adult participation Students can have more autonomy over the and help in crafting the jar.
- Students can play a composting game rather than, or in addition to, creating their own compost:
 - H/ess05/ess05_int_compost/index.html
- project and be responsible for crafting the compost jar themselves.
- Students can research other options for composting and why it's important.
- http://d3tt741pwxqwm0.cloudfront.net/WGB Students can propose a long-term compost solution that fits the needs of their own household.