

# Welcome Educators!

## Project Green 2018

### Workshop 1

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# Agenda

- Sustainability Activity
- Project Green Housekeeping
- A few words about NGSS
- EcoRise Lesson Presentation (*the fun part*)
- EcoRise Platform Navigation



# Notice and Wonder



# Activity Time!

Introduction to Sustainability

## Project Green 2018

- Explore EcoRise Platform
- Complete Lessons during 3 class periods minimum
- Complete Waste Audit





There are 2  
**SUPER EASY**  
things  
you can do right now  
to align your teaching  
to NGSS.



# 1. Embrace the Science and Engineering Practices

## Dimension 1 Science and Engineering Practices



1. Asking questions (science) and defining problems (engineering)
2. Developing and using models
3. Planning and carrying out investigations
4. Analyzing and interpreting data
5. Using mathematics and computational thinking
6. Constructing explanations (science) and designing solutions (engineering)
7. Engaging in argument from evidence
8. Obtaining, evaluating, and communicating information



## 2. Internalize these shifts

### A New Vision for Science Education

Implications of the Vision of the Framework for K-12  
Science Education and the Next Generation Science Standards

SCIENCE EDUCATION WILL INVOLVE LESS:	SCIENCE EDUCATION WILL INVOLVE MORE:
Rote memorization of facts and terminology	Facts and terminology learned as needed while developing explanations and designing solutions supported by evidence-based arguments and reasoning.
Learning of ideas disconnected from questions about phenomena	Systems thinking and modeling to explain phenomena and to give a context for the ideas to be learned



## K-12 Progressions

from *NGSS Appendix E: Disciplinary Core Idea Progressions*

	K-2	3-5	6-8	9-12
ESS3.C Human Impacts on Earth Systems	Things people do can affect the environment but they can make choices to reduce their impacts. ESS3.C	Societal activities have had major effects on the land, ocean, atmosphere, and even outer space. Students describe things society does to protect Earth's resources and environments. ESS3.C	Human activities have altered the biosphere, sometimes damaging it, although changes to environments can have different impacts for different living things. Activities and technologies can be engineered to reduce people's impacts on Earth. ESS3.C	Sustainability of human societies and the biodiversity that supports them requires responsible management of natural resources, including the development of technologies and regulations. ESS3.C



# Notice and Wonder

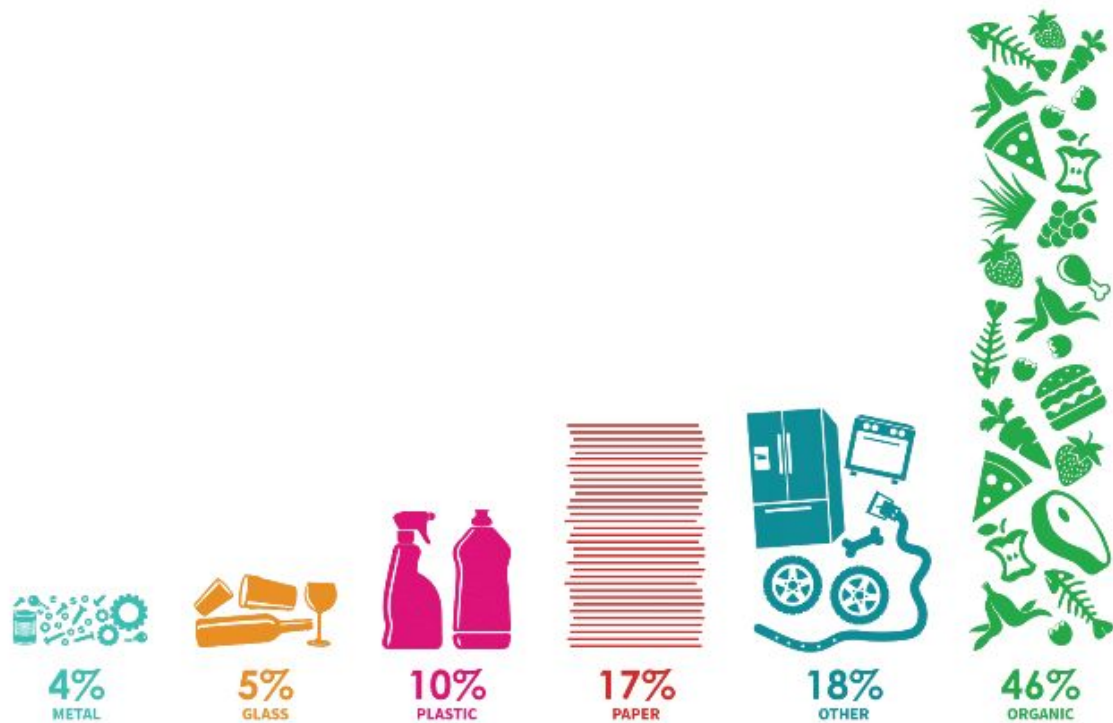


Now let's get trashy!

How did you sort your  
waste?



# Global Solid Waste Consumption



# Recycling

## Paper/Cardboard



Paper, newspaper



Handouts, pamphlets, maps



Shredded paper (in paper bag, stapled shut)



Pizza boxes, food boxes (small amount of grease okay)



Phone books, paper back books



Magazines, mail, envelopes, folders



Non-foil wrapping paper



Flattened cardboard boxes, packages

## Plastic



Empty water and beverage bottles, milk jugs (lids okay)



Cleaning bottles, shampoo bottles, spray bottles



Clean food containers and cups

## Glass



Clean glass jars and bottles

## Metal



Clean metal cans and jars



Aluminum foil and foil trays



Scrap metal

## Recycling Tips

- Recyclables must be **EMPTY, CLEAN, and DRY**. Give it a quick rinse and shake if it had food, liquid, or product in it
- Don't worry about the color of any recyclables
- Not recyclable: Styrofoam, plastic straws, paper towels, tissues, napkins, chip bags, wrappers, paper cups with wax liners



# RECYCLE

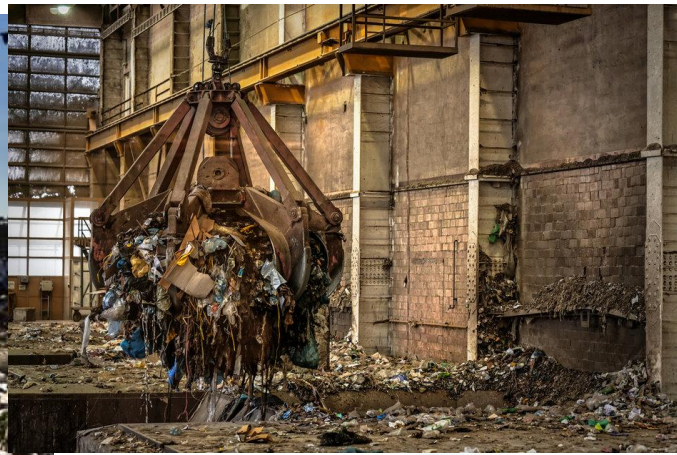
Glass • Paper • Metal • Plastic



RecycleMinnesota.org

Where does your waste go?





## Waste Processing Facilities





# Lesson Extensions

- Make little Landfills and monitor decomposition
- Waste Tracking for day/week
- Research local waste facilities
- School Waste Audit

Elementary Food Waste Audit: <https://youtu.be/HV7MUhh-JBY>



# EcoRise Platform

1. Go to <https://ecorise.instructure.com/enroll/JKGXH7>
2. Select "I am a new user," then enter your school email address in the Username field.
3. Enter your full name and check the "I agree" box.
4. Click on "Enroll in Course."

[ecorise.org/teacher](https://ecorise.org/teacher)

