

The Missing Food Mystery

What can we do to reduce food waste?

This Workshop was funded in part by a WRRED grant from the Department of Ecology

Missing Food Mystery Workshop Activity 1: What's the missing food mystery? Why do we care?





Did You Know:

In the USA, 1 out of 4 bags of food goes missing every week!



Where does it go?



To solve the Missing Food Mystery, we need to warm up our Investigator Senses and record our ideas in our Mystery Data Log.



To solve the Missing Food Mystery, we need to think like scientists and record our data.

Seven (7) things scientists do to investigate an issue.



Ask Questions Observe Experiment Gather data Test Ideas Read Research **Draw Conclusions**



Why does missing food matter in the world?



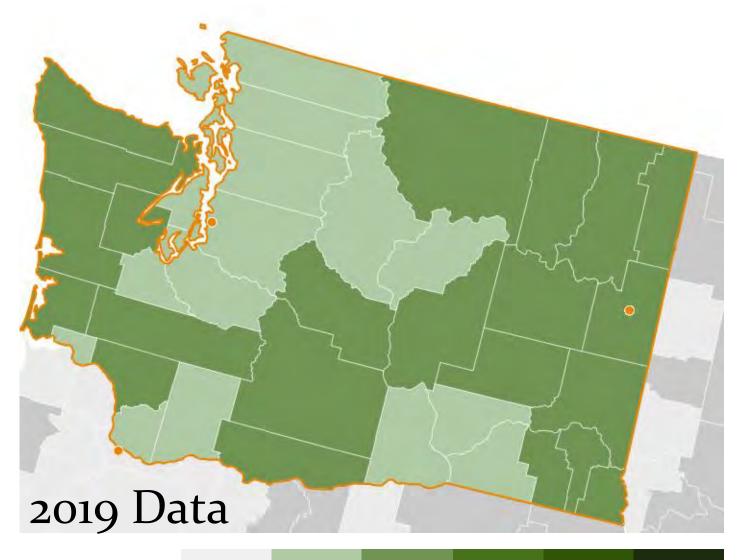
Of the 7.9 billion people on the planet, an estimated 770 million faced hunger in 2020 according to the United Nations.

Why does missing food matter in the USA?



Of the 330 million people in the United States, an estimated 38.3 million were food insecure in 2020, according to the USDA.

Why does it matter in Washington State?



- One million Washington residents visited a food bank in the past year.
- 1 in 10 people in Washington regularly struggle with hunger.
- 1 in 6 Washington kids live in a household that struggles to have enough food for the family.

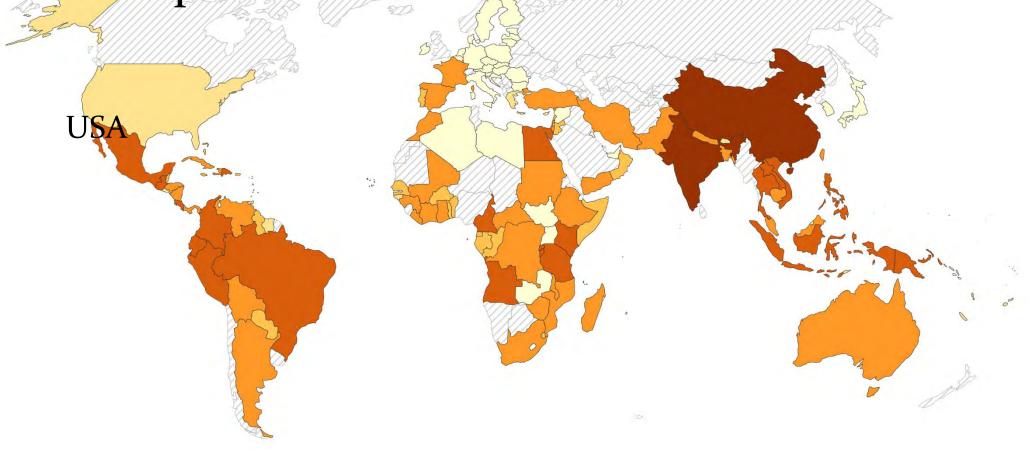


Missing Food Mystery Workshop Activity 2: What happens so we can eat bananas?





Bananas are produced in warm climates around the world.



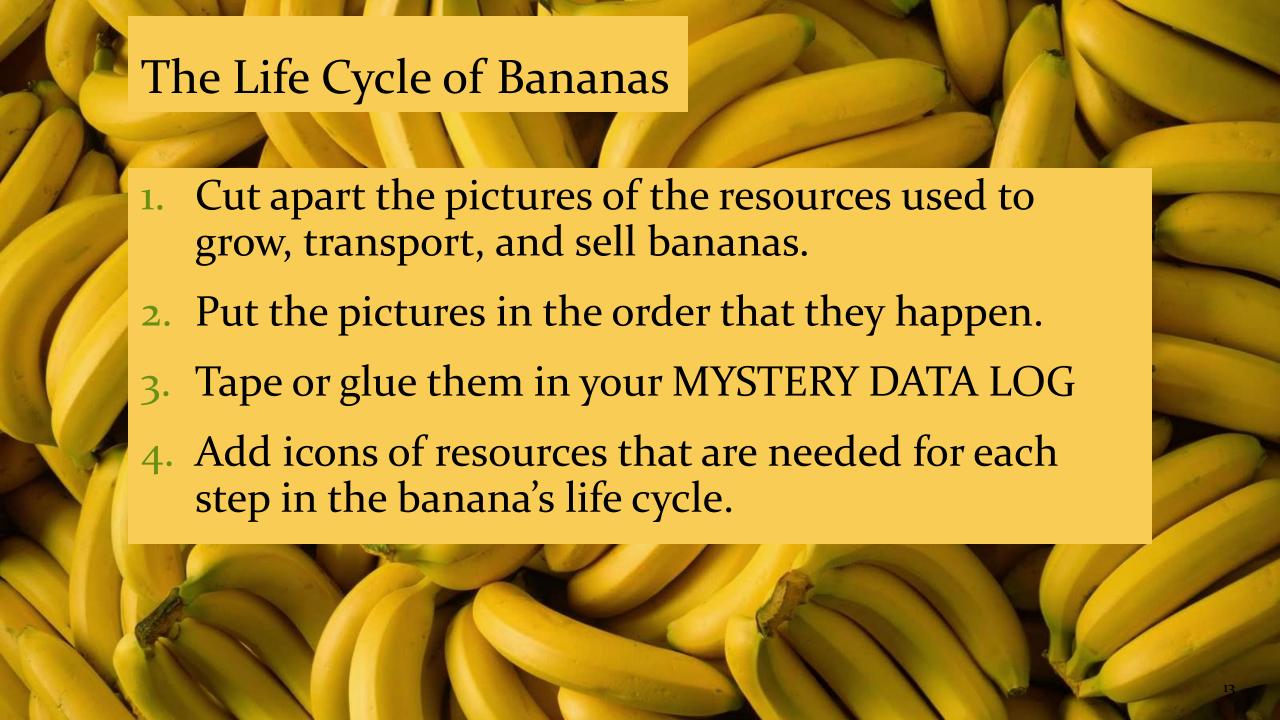
The darker the color, the more bananas are grown.





Most of the bananas we buy come from Central America



















Sun, soil, and water are needed to produce banana plants and flowers.





Bananas are harvested and washed by workers. The blue bags and wash water are filled with chemicals to protect bananas from pests and spoiling.























Bananas are boxed and transported by trucks and cargo ships.









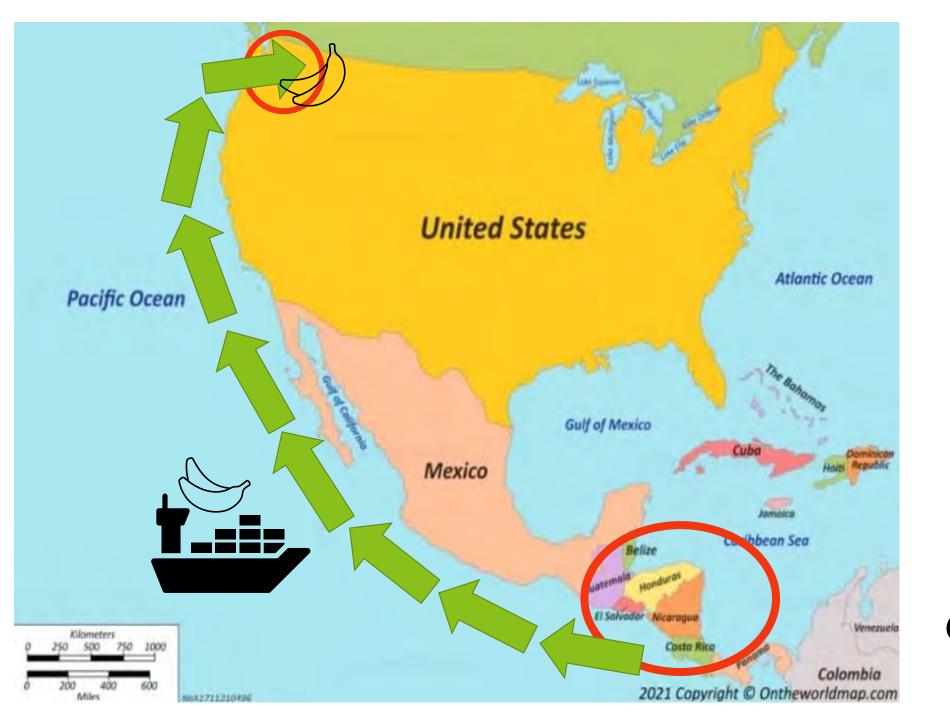












How far do
bananas travel
from
Central
America to get
to my home?

The green arrows are approximately 600 miles each.

What does it take so we can eat bananas?



- Soil
- Water
- Sun
- Chemicals
- Workers
- Machinery
- Trucks
- Cargo Ships
- Gas
- Money

Americans throw away 5 billion bananas every year!



It takes 270 days to grow bananas.



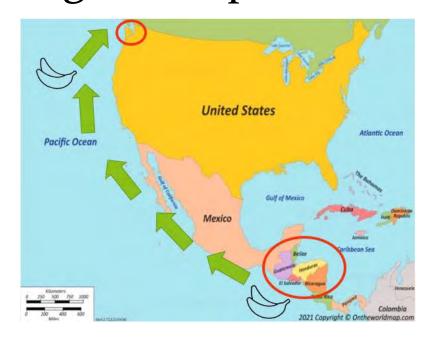
About 5-gallons of water is required every day for one banana plant.



5 gallons x 270 days to grow = 1,350 gallons of water.

REVIEW: Why is missing food a problem?







Some of the resources used so we can eat bananas.



Missing Food Mystery Workshop Activity 3: Why is food wasted?









Why is food wasted?







Food Spoils

Why is food wasted?

- 1. Putting more food on your plate than you can eat.
- 2. Throwing away food you don't like.



3. Buying or cooking more food than is needed.



Why is food wasted? Storing food improperly.







Which party foods can stay out the longest and still be safe to eat?



Why is food wasted?

Confusing Expiration Dates

- Best before ...
- Best if used by ...
- Use by ...
- Sell by ...

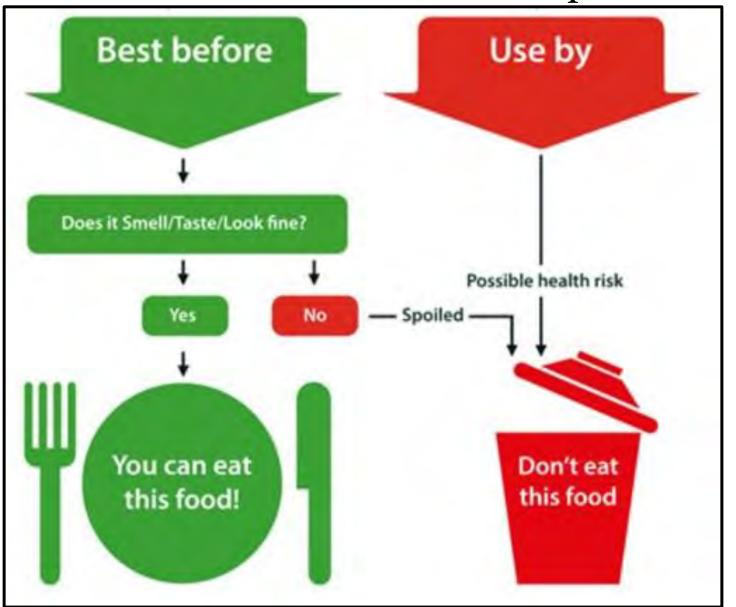


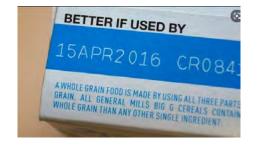
What do we do if the date has passed?















Keep these foods in your pantry. They have a long shelf life.

0-1 YEARS

Dried Fruits

1-3 YEARS

Bouillon

Dark Chocolate

Dried Pasta

Jerky

Oats

Oils

Ramen Noodles

Tea

Tomato Sauce

Jams and Jellies (unopened)

3-5 YEARS

Canned Tuna

Pickles (unopened)

Spices

5-10 YEARS

Canned Fruit

Grains

Molasses

10+ years

Instant Coffee

Powdered Milk

Rice

FOREVER

Corn Starch

Dried Beans, Lentils & Legumes

Liquor

Maple Syrup (unopened)

Popcorn

Powdered Jell-O

Raw Honey

Salt

Soy Sauce (unopened)

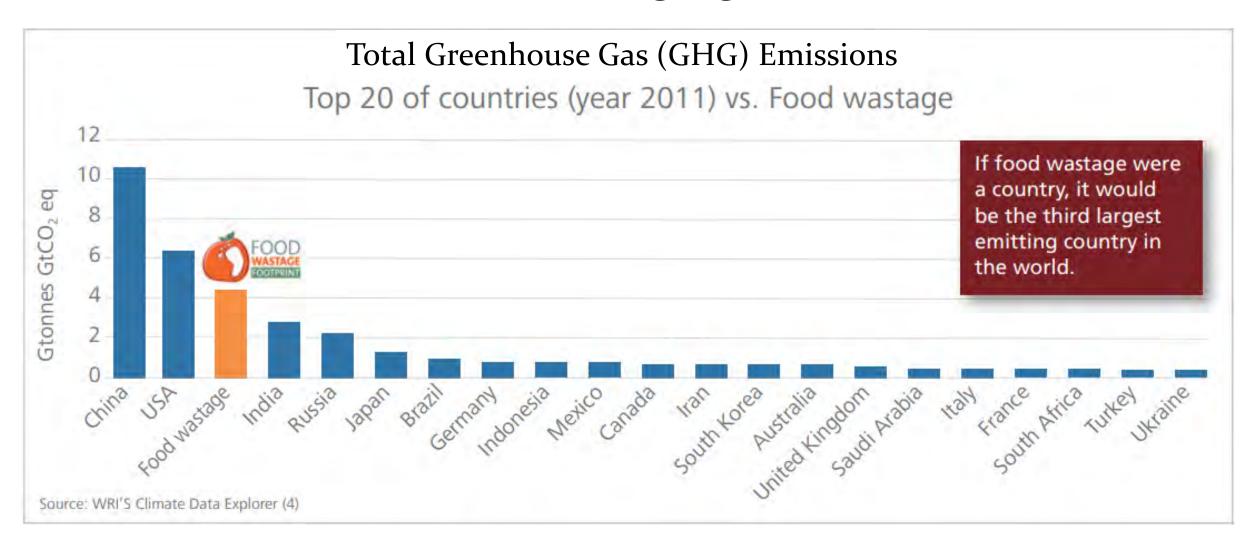
Sugar

Vanilla Extract

Vinegar



Rotting food in landfills creates a gas called methane which is 26 times more damaging than carbon dioxide.





Commercial Composting



The City of Spokane and Waste Management take yard and food waste to Barr-Tech for composting.



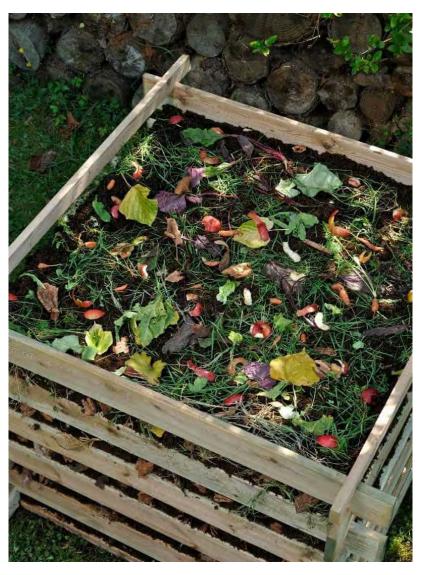




There are many way to compost at home.









including feeding red wriggler worms that love to eat your leftovers.



Not sure where it goes?

The Waste and **Recycle Directory** will help you put your waste in the right place. So much better for our world than just throwing it "away".

spokanewastedirectory.org



How can we rescue food?



Investigate the Missing Food Mystery at home

USE THIS WASTE AUDIT SHEET IN YOUR MYSTERY DATA LOG.



Can You Solve the Missing Food Mystery? Food Waste - Home Audit

Use your Investigator Eyes, Ears, and Nose



Dere	What food aid (throw away at some?	Why
Sample	√ Meat □ Vegetable √ Fruit √ Breads / Grains √ Beverage (milk, fruit juice, soda) □ Other	I saw mold. My banana was black. The milk smelled sour. I heard my mom say it was expired. I was full. I didn't like the taste.
Day 1	☐ Meat ☐ Vegetable ☐ Fruit ☐ Breads / Grains ☐ Beverage (milk, fruit juice, soda) ☐ Other	
Day 2	☐ Meat ☐ Vegetable ☐ Fruit ☐ Breads / Grains ☐ Beverage (milk, fruit juice, soda) ☐ Other	

"Best By" "Sell By" and	"Best If Used By" dates are not expiration dates. The food
may still be good to eat.	Ask an adult. Use your eyes, ears, and nose.

Name:	My solution for reducing food waste at home. I will	

Investigate the Missing Food Mystery at school.

USE THIS WASTE

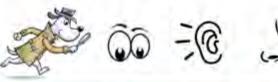
AUDIT SHEET IN YOUR

MYSTERY DATA LOG.



Can You Solve the Missing Food Mystery? Food Waste - School Lunch Audit

Use your Investigator Eyes, Ears, and Nose



Date	What food did / throw away at school?	Why
Sample	✓ Meat □ Vegetable ✓ Fruit ✓ Breads /Grains ✓ Beverage (milk, fruit juice, soda) □ Other —	It looked like it would taste bad. It smelled yucky. I was told to take it, but I didn't want it. I was full. I didn't like the taste. My friends told me to hurry up.
Day 1	☐ Meat ☐ Vegetable ☐ Fruit ☐ Breads / Grains ☐ Beverage (milk, fruit juice, soda) ☐ Other	
Day 2	☐ Meat ☐ Vegetable ☐ Fruit ☐ Breads / Grains ☐ Beverage (milk, fruit juice, soda) ☐ Other	

Name:	My solution for reducing food waste at school. I will	

Missing Food Mystery Workshop Activity 6: How can we inspire people to reduce food waste?





ROLE: You work for an ad agency, and your task is to create a media campaign that inspires everyone in Spokane to reduce food waste.

Be Creative. Make it fun.



IDEAS:

- Create a slogan
- Make a poster
- Act out a video scene
- Write an announcement
- Write a song

PRESENTATIONS:

Each team will present your add campaign to the group.

Ideas for Your Media Campaign to Reduce Food Waste

- Be part of the clean plate club! Take what you'll eat and eat what you take.
- Put food scraps in the green bin which is collected for commercial composting.
- Start a home compost bin or feed food scraps to red wiggler worms.
- Conduct a food waste audit with your family or in the school lunchroom.
- Visit a farm to learn about crops and animals.
- Grow your own vegetables and help an adult take care of a garden.
- Learn to cook a favorite meal (get help from a grown up).
- Share what you've learned today with others!

Possible Slogans for Creating a Poster

- Take what you'll eat and eat what you take.
- Think twice before wasting food.
- Food waste benefits no one.
- Waste less, save more, live more.
- Be smart and say no to food waste.
- Nothing good comes out of wasting food.
- Wasting food doesn't make you cool.
- Food is meant to be eaten not wasted.
- Be thankful you have food. Never waste it.
- Cutting food waste is a delicious way of saving money, helping feed the world and protecting the planet.
- Someone is dying for the food you are throwing away.
- There is food enough for everyone on this planet, but not everyone eats.
- Give away food instead of throwing it in the garbage.
- You paid good money for that...Why throw it away.
- Hunger can kill a person. Please save food.
- Don't waste anything. Eat your leftovers the next day.
- Respect for food is respect for life.
- Don't waste food. Live simply so others may simply live.
- Don't take big portions of food you have never tried before.
- The food you save may bring a smile to a poor person's face.
- Store food properly so it doesn't spoil.
- Don't waste food, water, money, time or talent.
- Today's wastage is tomorrow's shortage. Save food.

Posters Ideas to Inspire People to Reduce Food Waste







