BCK Programs, LLC™

ENVIRONMENTAL EDUCATION

Students Making Change

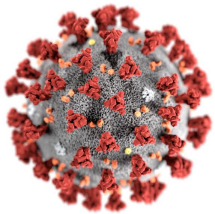
Experienced Recyclers

Zoning Out

Composting in the Zone

Composting Continues

Covid Safety, More Waste



Pre-Packed Sack Lunches

Making Methane

It's The Law

Mandatory Recycling &

Mandatory Organics Recycling

This includes schools!!

Relevant Waste Diversion Legislation in California	
Assembly Bill 341	Requires municipalities and businesses to set up recycling programs. Statewide goal to recycle 75% of all materials sent to landfill.
Assembly Bill 1826	Requires businesses that create organic waste to arrange for organic waste recycling services, and local governments to implement a commercial organics recycling collection program.
Senate Bill 1383	Requires 75% reduction of organic waste disposal from 2014 levels by 2025 (includes schools, hospitals, all businesses that generate solid waste).

Climate Action Goals

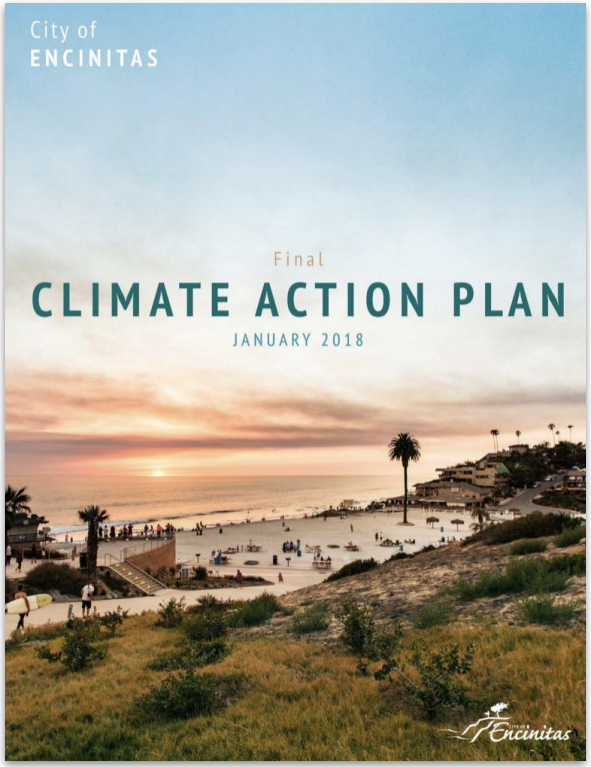


Table 3-8 Strategy 6: Zero Waste

Goal 6.1: Divert Solid Waste

City Action: ZW-1 Implement a Zero Waste Program

Implement a Zero Waste Program to reduce waste disposal from residents and businesses in the community.

Target Year	Performance Metric	GHG Reduction Potential ($MTCO_2e$)
2020	Divert 65% of total solid waste generated (equivalent to 5.3 pounds per capita per day waste disposal).	2,830
2030	Divert 80% of total solid waste generated (equivalent to 3 pounds per capita per day waste disposal).	11,921

Supporting Measures for Goal 6.1:

- Implement an Organic Waste Recycling Program through the following measures:
  - Support regional efforts to plan for and develop residential and commercial food scrap composting programs.
  - Facilitate the establishment of fully-permitted community appropriate compost facilities in the City.
  - Continue to support at-home management of food waste through educational workshops and subsidies of compost bins and worm bins.
  - Continue to support Zero Waste programs at local schools.
  - Provide free audits of restaurants and grocery stores to reduce waste generation.
  - Develop City Hall waste audits and consider pilot composting project based on audit results.
- Develop education program for textile recycling.
- Evaluate and expand existing recycling requirements at City permitted events and activities.
- Expand outreach and education on the City's C&D Ordinance that has a lower threshold for covered projects.

Continue to support Zero Waste programs at local schools

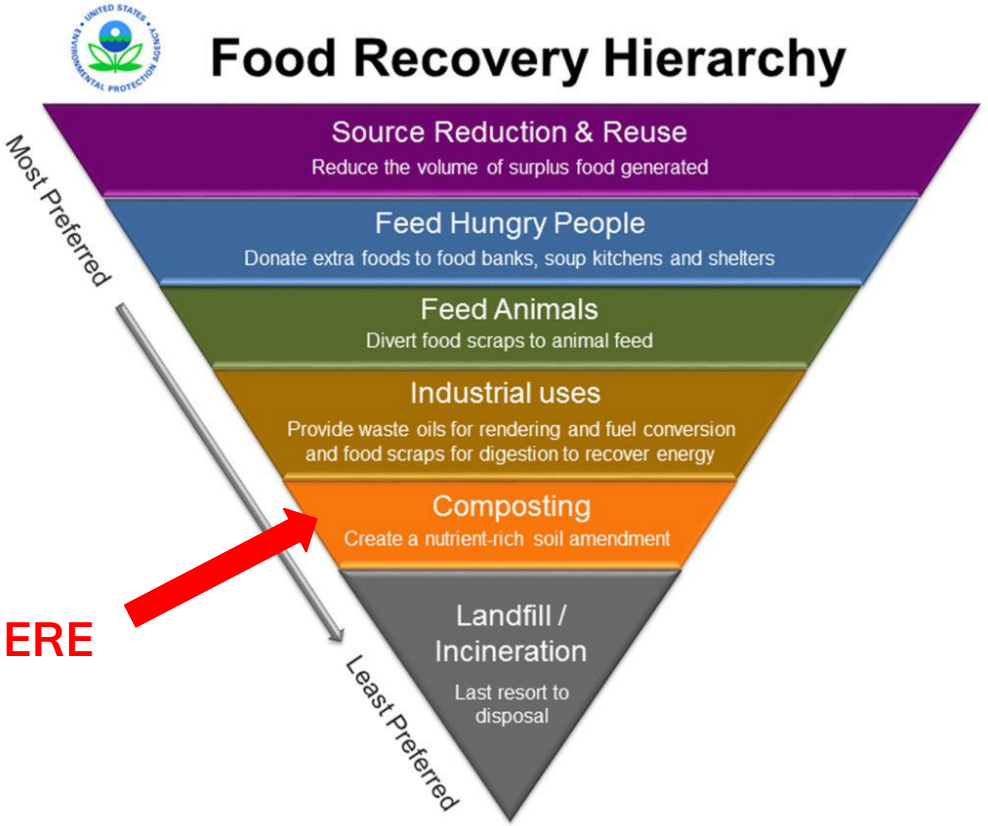
City of Encinitas Funding

Organics Educational Programs Outline

Designed for in-school delivery, some actions have a home component.

Track #1 Organics Recycling Action Plan (ORAP)	Track #2 Food Recovery Action Plan (FRAP)
 Putting food waste to work as soil amendment	 Changing individual/family behaviors & setting up school food rescue programs
Introduction: The What and Why of Organics Recycling	**Introduction:** Food Waste to the Rescue
 **Action 1: A Liter of Landfill** Make a mini landfill model to see methane form inside a balloon from food waste placed in a closed system. Instructions Data Sheet **Home Activity:** Compost in a Jar	 **Action 1: How Big is Your Foodprint?** Students answer a series of questions to find out if their eco-friendly choices balance out their greenhouse gas-emitting behaviors. Instructions Printable Question Cards No Data Sheet **Home Activity:** How Big is Your Foodprint?
 **Action 2: What a Waste** Conduct a food waste audit at school during lunchtime to collect data showing how much food is going into the trash each day. **Home Activity:** Instructions/ Data Sheet School Home Food Waste Audit	 **Action 2: Acquired Waste or All in Good Waste** Students conduct individual waste audits of their own lunches and then compare them with their classmates to paint a lunch waste picture of the entire class. Instructions Data Sheet **Home Activity:** Home Dinner Audit

Highest and Best Use



WE WERE HERE

Audit Everything

Food Waste Audit

Action Overview

Food waste is a very big problem throughout the world, and even more so in the United States. 40% of food produced in the US does not get eaten. It is estimated that the average American creates one pound of food waste per day. This staggering number is made even worse when you also consider that 52 million Americans don't have enough to eat every day. Food waste is the single largest type of waste sent to landfills. In addition to overlooking how some of that wasted food could be used to address local hunger issues, food waste buried in a landfill and deprived of oxygen creates methane, a potent greenhouse gas.

To truly reduce food waste, you must approach it from multiple perspectives. First, with careful planning try to reduce food waste at the source - your shopping cart. Planning meals in advance and purchasing only perishables that you will need for the week is a great start. Next, after meal preparation see if you can give food scraps a second life. Perhaps your carrot tops, onion bottoms and chicken bones can simmer in a pot and transform into a delicious broth. Overripe bananas can be made into a moist banana bread. And finally, after you have used the above strategies to reduce as much food waste as possible, you can compost whatever is remaining. In this way you will give your uneaten food scrap a chance to become a powerful tool in building healthy soil. The first step to this food waste liberation is to understand your waste stream.

With a little detective work, you can determine what is going into your trash, and then learn tips to prevent food waste in your home. Follow the instructions provided to conduct an at-home waste audit and challenge yourself to make changes to reduce food waste. If every household takes on this challenge, we could all make a difference in the amount of food waste sent to the landfills.

Recoverable Food

Hunger in America and Down the Street

Best Practices

Student Choice

Pack it Back

Second Chance Food Bins

Pilot School Site

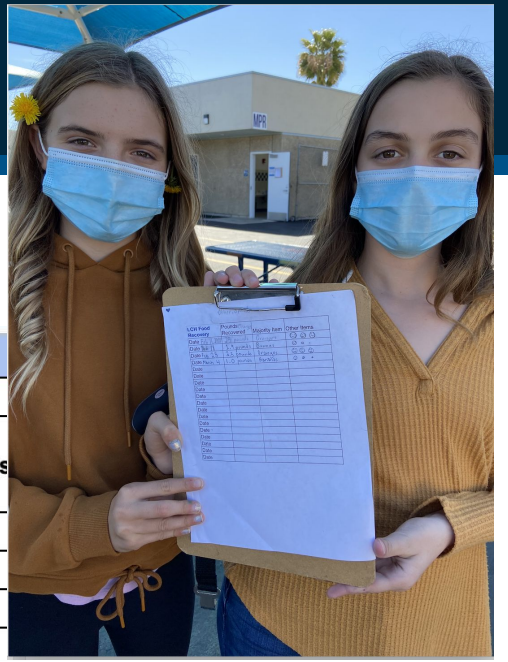
Giving Food a Second Chance

SECOND CHANCE FOOD

WHOLE UNPEELED FRUIT & UNOPENED PACKAGES

FOOD RECOVERY

Records and Safety

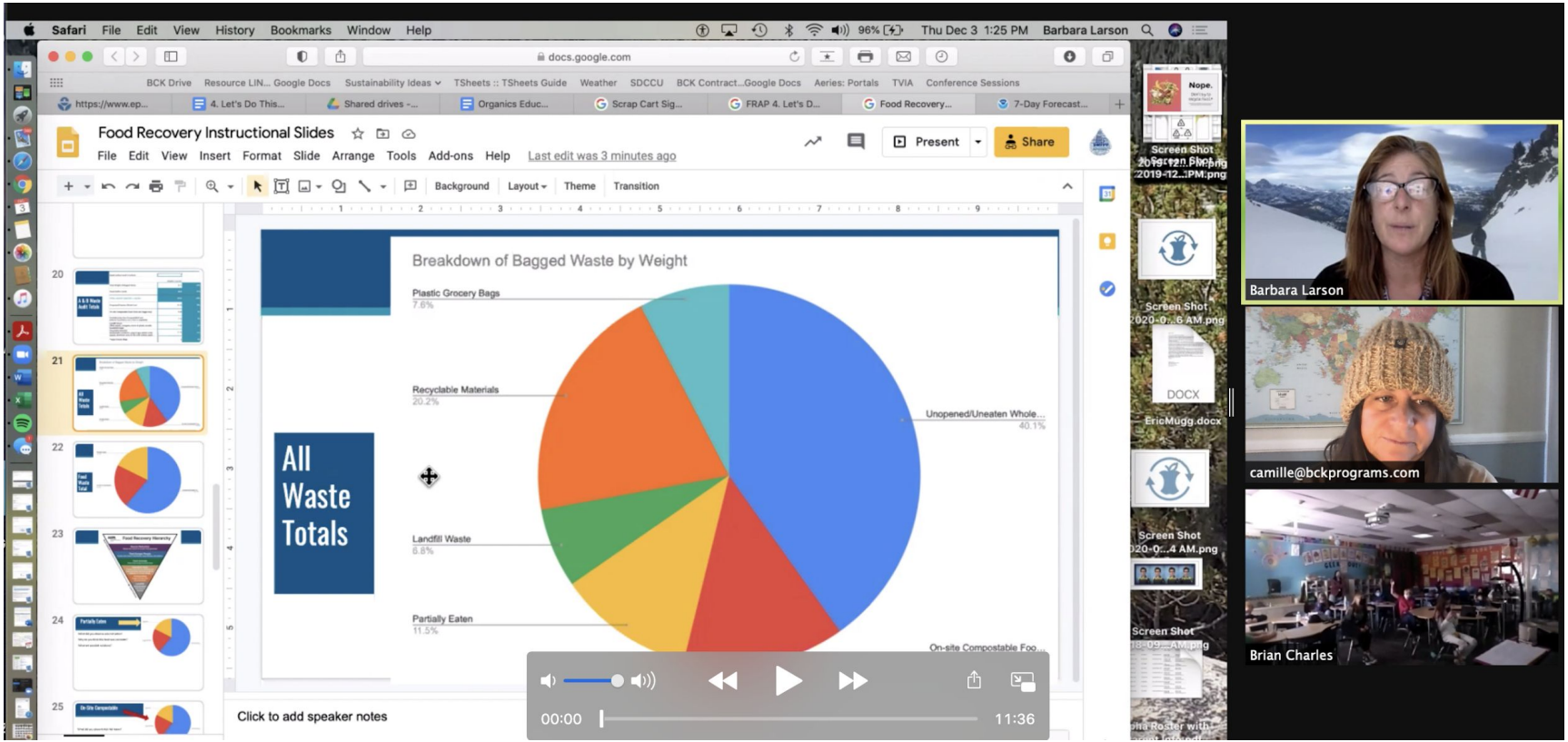


EUSD Food Recovered										
	Pounds Recovered by Site									
Date of pick up and majority items collected	Capri	ECC	FV	LCH	ME	OPE	PEC	PDL	FARM LAB	Total Pounds Recovered
1/7-bananas		20								
1/14- bananas?	20	40	10							
1/21- mandarins		40	40lbs							80
1/28 mandarins	10	40	50		30		30			160
2/4 celery & carrot bags	5	30	30		30	20	20	20		155
2/11- mandarins + celery packets	15	40	25		15+10	20	15	20		160

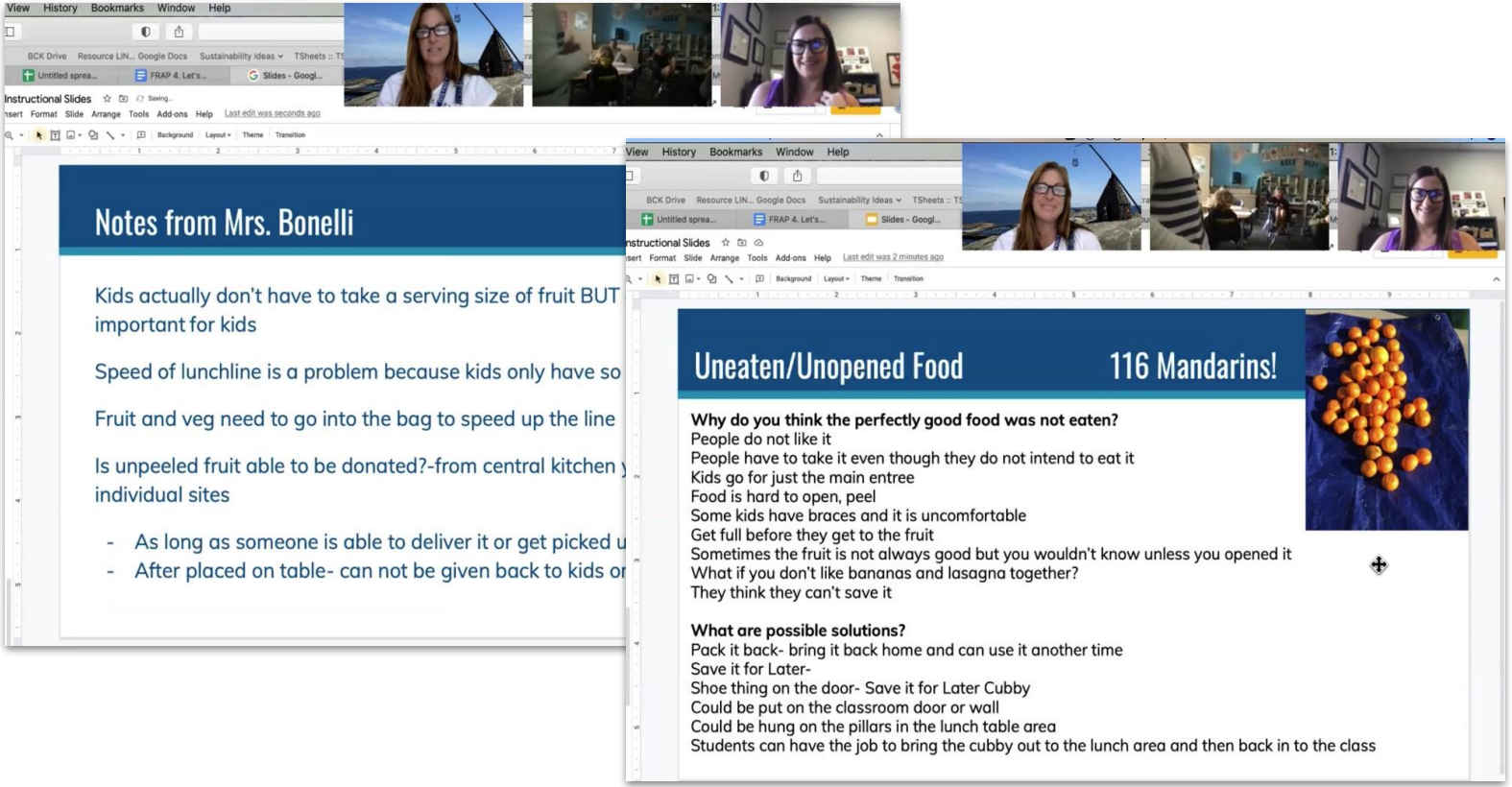
TOTAL: 555 POUNDS

Getting the Word Out

Data Sharing



Best Practices Accepted



Results Are In

With Student Choice,
Second Chance Food Collection, and
Composting,

EUSD can divert **over 80%** of all food waste from the landfill.

Recoverable food waste was reduced by **90%** at sites with Student Choice and Second Chance Food Collection.

CNS Director, Lea Bonelli

Student-Powered Changes

Photographs taken pre-COVID

National City Shines

Palmer Way School & BCK Programs, LLC™ ENVIRONMENTAL EDUCATION

Lunch Waste
Pilot site for NSD Carton Recycling
Creation of Original Carton Recycling Training Video
Food Recovery Save it for Later Campaign
Share Table Pilot
SITE IMPACT: Divert 1,000 cartons from the landfill daily

Campus Recycling
Campus-wide waste audits
Implement 1:1 campus-wide recycling
Creation of educational signage used as model through the district
SITE IMPACT: Reduction of Campus waste by 50%

Composting
Pilot Site for District Composting
Pilot Site for large scale vermicomposting
Sixth-grade service-learning program
SITE IMPACT: Divert 30-40 lbs of food waste daily

Garden
Official Monarch Butterfly Way Station Location
Pollinator Garden Beds
Waterwise Succulent Garden Beds
Mint/Stevia Tea Garden
Spaghetti Sauce Garden
Bi-monthly in-season tastings with recipe distribution/Open garden days
Eight dedicated produce beds to highlight eating locally
Accompanying Grade level garden activities
SITE IMPACT: Increase children's knowledge about the benefits of eating fruit and vegetables.

Palmer Way Takes on Recycling

District-wide Recycling

10,000 Cartons - EVERY DAY

Major Waste Reduction

Our School and Beyond

Food Waste Audit

Food Waste Audit

Action Overview

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Organics Recycling Action Plan
SCHOOL

Action 1: A Look into a Landfill

Overview

Why is reducing food waste such a big deal? Local and state leaders have been busy creating policies and passing laws to make sure businesses, schools and residents keep their organic waste out of the trash can. Remember, organic waste is anything that comes from either a plant or an animal. Some examples are: landscape waste, like grass clippings and leaves from your yard, food waste, food wrappers made of paper, paper towels, napkins and even some wood products.

Food waste is the single largest type of waste sent to landfills. It is estimated that the average American creates one pound of food waste every day. Try to imagine storing your family's food waste in a big pile. Every day each member who lives in your home adds one pound of food waste to it. How big would the pile be in one year. Where would it fit? Now picture piles like that for all the families who live near you. Now consider how that would look for all 328 million people in America. Will the landfills fill up? Will we need to keep building new ones? What about all of the methane gas released into the air from all of this food waste?

Food waste creates greenhouse gas

Remember, the food waste dumped at the landfill gets buried under thousands of pounds of other waste. It begins to decompose, which is a very normal thing for organic waste to do. But trapped under so much other waste at the landfill, the food waste does not get any oxygen. When food waste decomposes without air, it creates a gas called methane. Methane gas is released into the atmosphere where it traps heat and helps raise the temperature of our planet.

It's a big problem and that's why lawmakers are trying so hard to fix it.
In 2016, the California State Legislature passed an important law to make sure we reduce methane emissions. Because organic waste in landfills is such a big source

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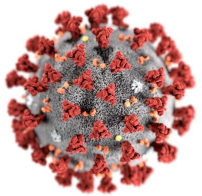
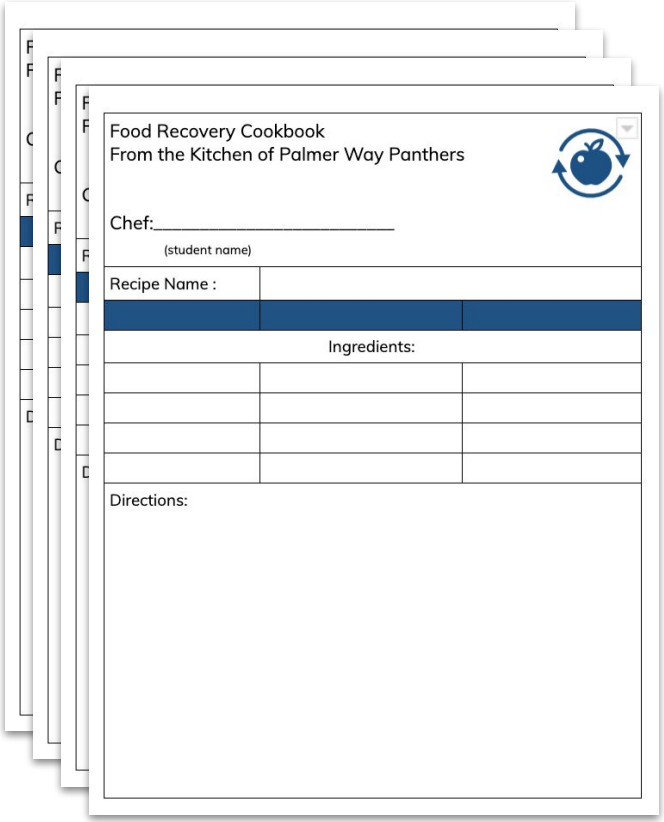


Solution #1: Food Scraps Cookbook


Food Recovery Cookbook
From the Kitchen of Palmer Way Panthers

Chef:_____
(student name)

Recipe Name :		
Ingredients:		

Directions:

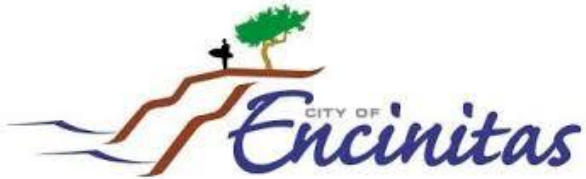
Solution #2: Curbside Composting

Solution #3: Collect Cafeteria Food Waste

Solution #4: Save it for Later

- Use when school returns to normal
- Plastic can be easily cleaned
- Individual space for each student
- Eat snack later in the day
- Better nutrition

Thank You!



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