

Making the Healthy Choice the Easy Choice

Community Interventions

February 8, 2024 Anne Mathews, PhD, RDN



Support Florida families to access more nutritious food choices to improve their health and wellbeing



Community Nutrition + Teaching **Kitchens**



Recipe for Heart Health





Nutrition in a Box

Books and Cooks

COOKING AND HEALTH

- Cooking more at home is connected to improved diet quality
 - Increased fruit, vegetable, and fiber intake Lower total calories, saturated fat, cholesterol,
 - added sugar, sodium
- A healthy diet patterns affects growth, development, and long-term health status



Culinary Medicine

- Applied in various forms
 - Culinary therapy
 - Teaching kitchens
 - Medically tailored meals
 - Meal kits and delivery services
 - Health apps





Recipe for Heart Health

A plant-based culinary diet intervention to test independent benefits of olive oil

Cardiovascular Disease

- Conditions that affect the heart or blood vessels Top cause of mortality and morbidity worldwide
 - 655,000 deaths from heart disease/year in US
 - 1 in every 4 deaths
 - Heart attack every 40 seconds

Vegan/Vegetarian Diets for CVD Prevention

- Large epidemiological studies
- Low-fat plant-based diet clinical trials
- Post-hoc PREDIMED cohort reanalyzed for provegetarian food pattern
 - Reduced risk of all-cause mortality by 41% in quintiles with highest vegetarian score

Aim 1 – Biometric Analyses

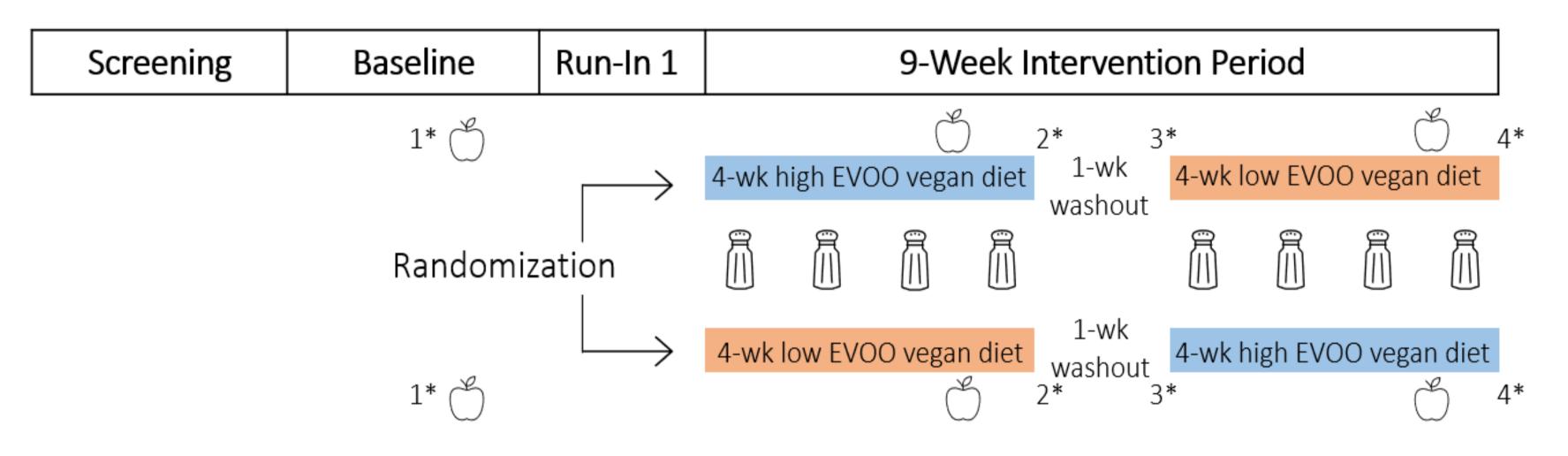
→ compare effects on clinical/metabolic cardiovascular risk factors → compare effects on cooking measures, stress, and mood

Aim 2 – Behavioral and Psychological Analyses

Aim 3 – Dietary Analyses

→ compare effects on diet quality and skin carotenoid status

Overview of Study Design



*Data collection: fasting blood, urine sample, stool sample, surveys, body measurements



Cooking class

Study Design: pilot prospective, open-label, randomized, controlled crossover clinical trial Population: primary prevention adult patients at borderline to high risk for ASCVD

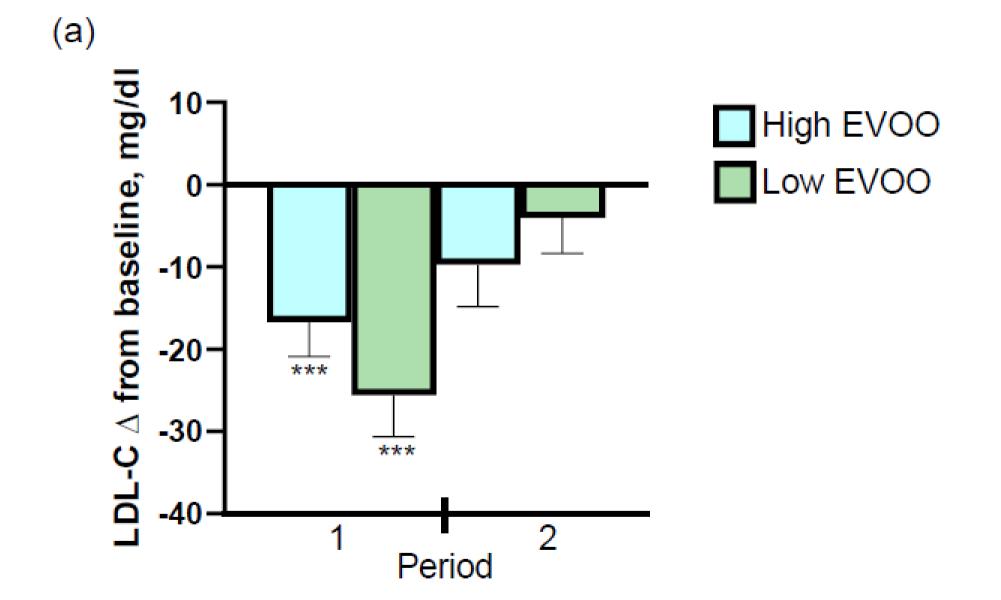
Teaching Kitchen Sessions



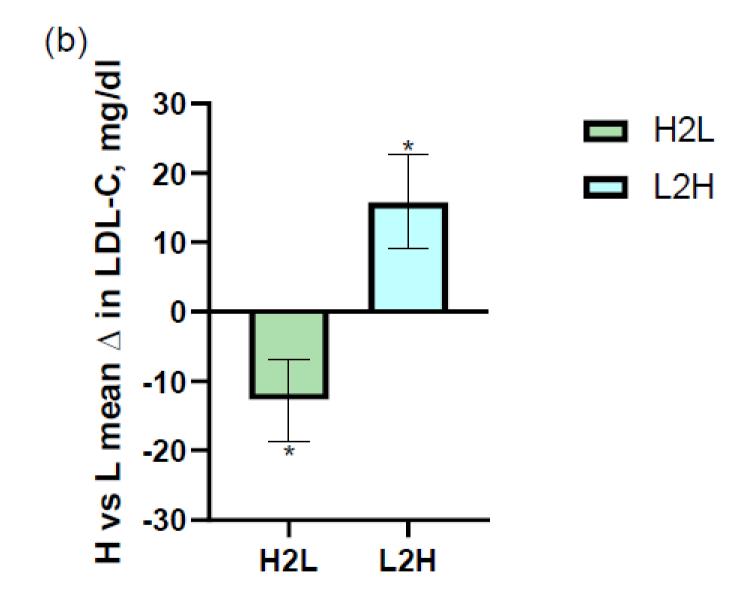
Overview of the Recipe for Heart Health Culinary Medicine Intervention Activities

High or Low EVOO Vegan Diet									
 Kitchen Ba Plant-Base Lifestyle Be 	d Diet	 Wheel of Cooking Balanced Meals & Plant Proteins Nutrition, Nature, & Sustainability 				Soups, Salads, & Sides Fruits, Veggies, & Friendly Fats Goal Setting & Values	 Beans & Grains Fiber, Carbohydrates, & Hydration Movement 		
WEEK 1			WEEK 2		WEEK 3			WEEK 4	
 Pastas & Sauces Energy/Nutrient Density Stress Mgmt. & Mindful Eating 			 What's for Breakfast? Micro- & Phyto-nutrients Sleep 		_	Snacks & Sweets Nutrition Label & Sweeteners Science of Happiness	 Flavors around the World Building Flavor & Eating Out Community & Relationships 		g Flavor & Eating Out
w	EEK 5		WEEK 6			WEEK 7	WEEK 8		WEEK 8
 Culinary Focus Nutrit 			on	Education		🗆 Lifes	style Wellness		
5-10 min check in & intro	20-25 min n & culin educat	ary	5-10 min cooking demo		30	30-40 mins hands-on cooking		15-20 mins tasting & lifestyle discussion	

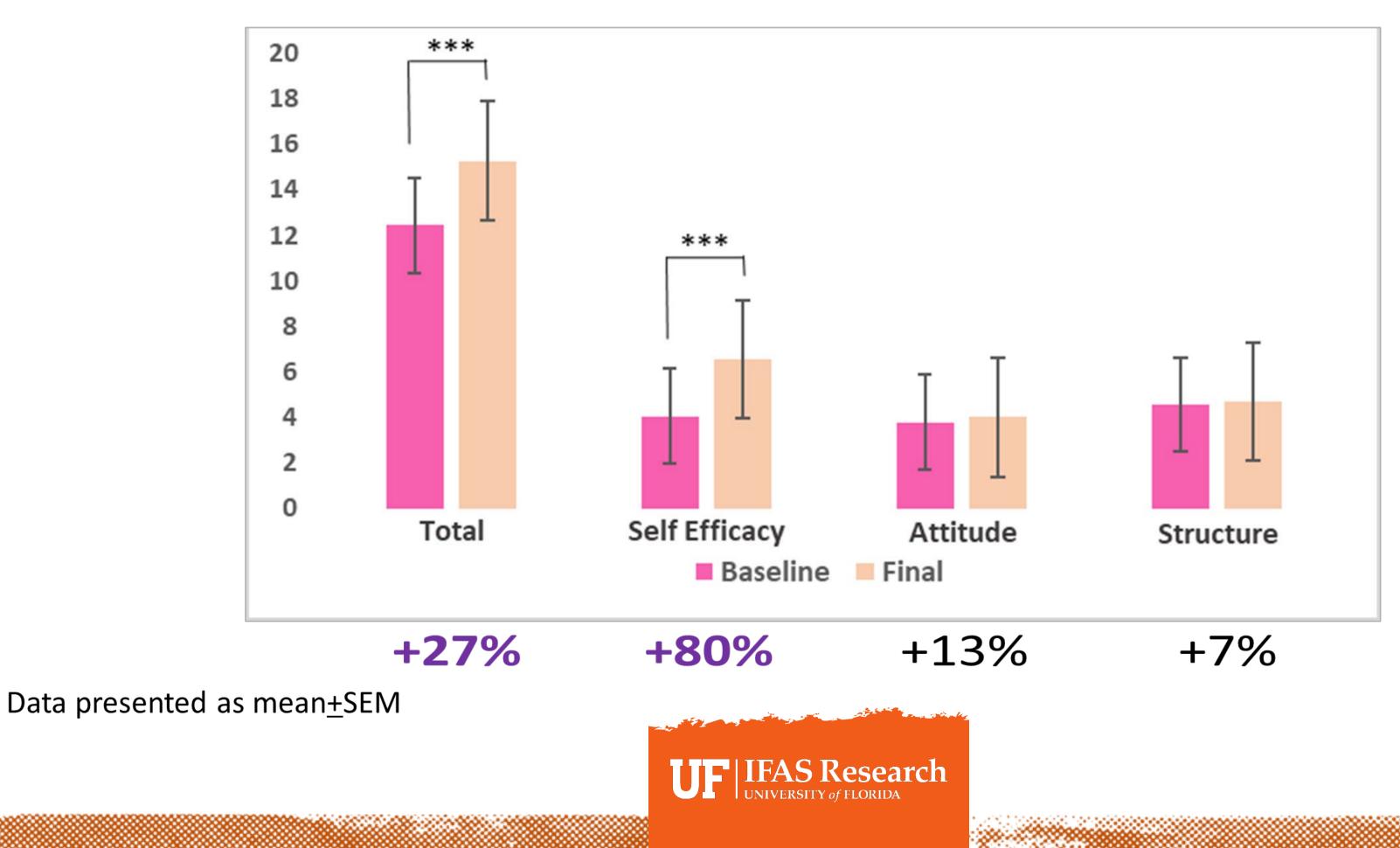
BRIEF RESULTS: MEAN LDL-C LEVELS BY TIMEPOINT AND DIET ORDER







COOKING AND FOOD AGENCY



NUTRITION IN A BOX Community Impact Report

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NUTRITION IN A BOX PILOT

We partnered with Eastside High School's Institute of Culinary Arts to develop a meal kit program for 40 families with low income.

This pilot program had several positive outcomes:

- Improved diet quality while participating in the program
- Decreased perceived stress
- Child engagement in cooking





HIGHLIGHTS FROM FOCUS GROUPS

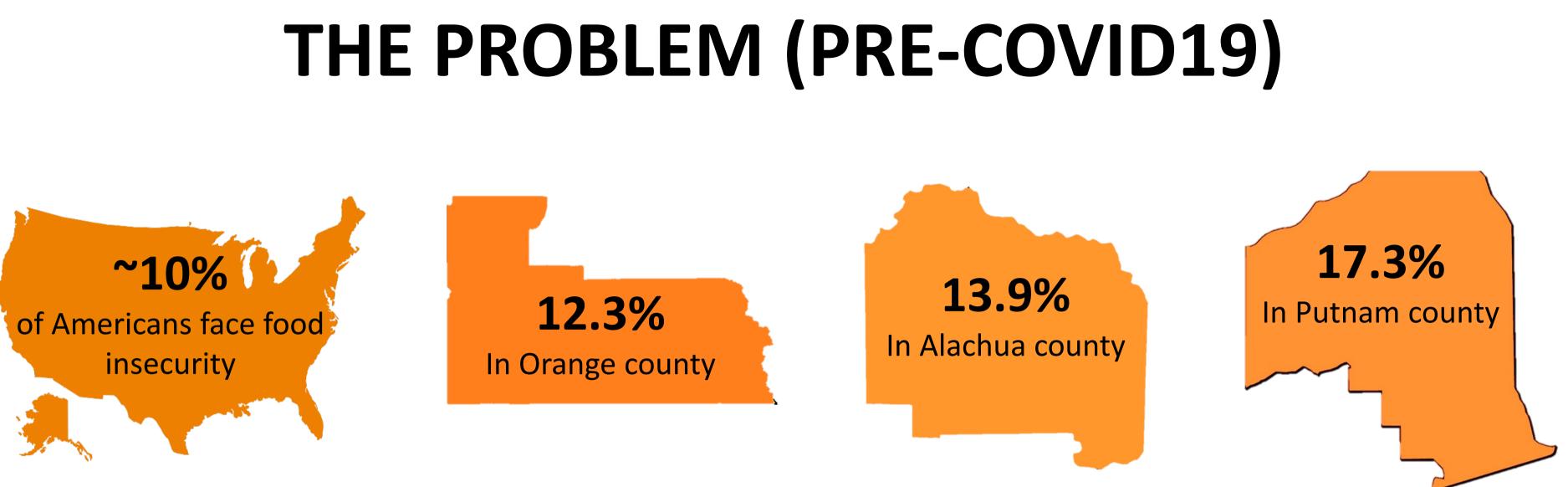
Shopping Behaviors

- 73% (11/15) reported cost as a major driver of food purchasing decisions
- 27% (4/15) reported nutrition as a major driver of food purchasing decisions

Meal Kit Preferences

- None of the focus group participants had heard of a meal kit
- Participants were open to the idea of the meal kit, but cited cost as a possible barrier
- All participants preferred a meal kit that includes fresh and shelf stable ingredients
- Central pick-up locations suggested include local church, food bank, community center, and schools





- Food insecurity relates to poor dietary intake, negative health outcomes, and increased healthcare costs.
- There is a critical need to increase daily access to fresh, healthful foods that can be ulletprepared in acceptable and appetizing ways for many families



NUTRITION IN A BOX 2020-2023

Program Goals for Meal Kit/Nutrition Intervention for 150 families with low income:

Increase fresh food access



Increase fruit and vegetable intake



Increase frequency of cooking meals at home



Engage 400+ high school students from 4 high schools in growing food and preparing boxes



Develop a toolkit with step-by-step guidance for establishing a community-based meal kit program



ADDITIONS TO LARGER PROJECT



New aspects of the project:



- Steering committees in each target community that meet quarterly
- Partner with high school agricultural science programs to help grow produce for meal kits
- Partner with UF/IFAS Extension to help create a sustainable program

THE PROGRAM

6-week program **Families receive** \bullet 3 nutritious meals for a family of 4 each week with step-by-step instructions Recipe cards and demonstration videos Nutrition education materials Cooking utensils lacksquareslice & spice dinner time is family time Health and nutrition data are collected at 3 times: \bullet Before receiving their 1st meal kit At the end of the 6-week program



Slice & Spice

- 6 months after the program ends

Recipe Cards

















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Instructions:



Prep

Cut the cucumber and red onion into small dice. Slice the tomatoes and lemon in half. Finely chop the cilantro. Remove the avocado's peel and seed and cut the avocado into medium dice. Mince the garlic clove. Drain corn and black beans. Rinse the black beans.



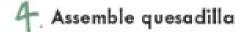
📜 Make corn, avocado, tomato salad 📃



To a large bowl, add the avocado, cucumber, tomatoes, red onion, and corn. Carefully juice the lemon into the avocado mixture. Remove any seeds. Add 1 tablespoon olive oil, garlic, and salt.

3. Make the filling

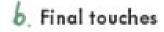
Mix the black beans, cheese, cilantro, and salsa in a medium bowl and set aside.



Spread about ½ cup of the black bean mixture on half of the tortilla. Fold tortillas in half and set aside. Repeat this step for the remaining tortillas.

5 Cook quesadilla

Heat 2 tablespoons olive oil in a large skillet over medium-high heat. Place filled tortillas in skillet. Cook for 3 minutes per side or until tortillas are golden brown and cheese filling melts.



Cut quesadillas into wedges and serve with corn, avocado, and tomato salad.



Did You Know ?

Black beans are a good plant-based protein.

>> Reduced-fat cheese offers good flavor with less saturated fat.

Try these tips! 🆄

- Avocadoes have one large seed in the middle; carefully remove it with a knife or spoon.
- Squeeze the lemon over a slotted spoon to separate the seeds from the juice.



Eating meals together as a family has educational, health, and social benefits. Parents can involve kids in the menu planning, grocery shopping, and cooking. Mealtimes can be a fun time for families to spend together.

GET KIDS INVOLVED:

 Kids can help shop, cook, and clean up dinner. Younger children can help in the following ways:

Preschoolers: wash produce, add ingredients, stir ingredients, help set the table, and put things in the trash

Elementary school-aged children: help make a grocery list, help put groceries away, measure ingredients, crack open eggs, cut food with a plastic knife, and set the table

Flip over for more!





An Equal Opportunity Institution







- focus on family.

- Parents can decide what,

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Nutrition Handouts

FOCUS ON FAMILY DURING DINNER:

 Encourage conversation: Show interest in your family's stories, praise one another, and try not to talk over each other.

Remove distractions: Turn off the tv and put phones away so you can

 Be a good role model: Eat from every food group and try new foods. If your children see you eating a new food, they may be more willing to try it.

LET KIDS MAKE CHOICES

· Parents and kids can share feeding responsibilities.

when, and where to eat.

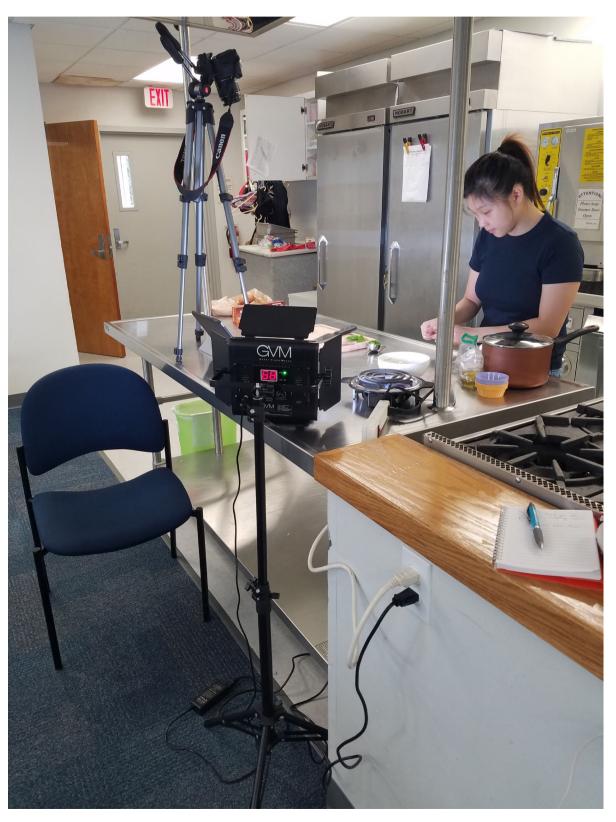
· Kids can decide whether to eat and how much to eat.





RECIPE VIDEO

https://drive.google.com/drive/u/4/folders/1KY5LoWjmJgKhQ01zQclR-4ayKnT7xzlm •







RECIPES AND VEGETABLES

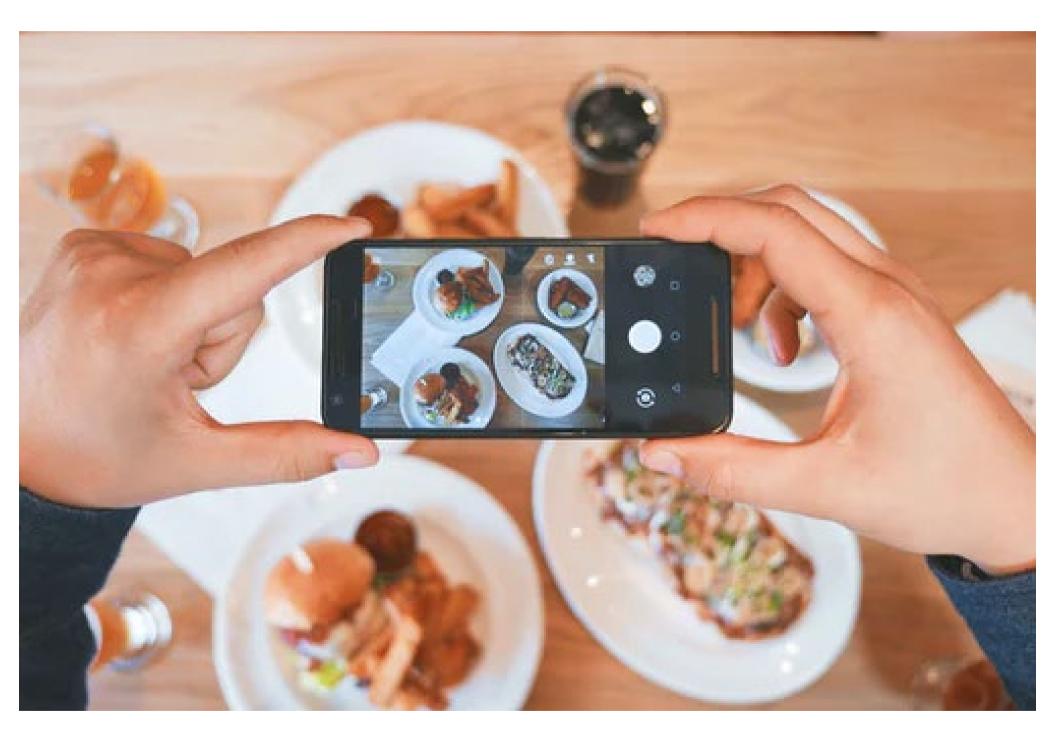
Recipe Card Name	Protein Source	Main Vegetable	Grain
Stir Fry Vegetables and Beef	Beef	Carrots, broccoli, bell pepper	Brown rice
Easy Spanish Chicken with Tomato Sofrito Sauce	Chicken	Tomato, Onions	Barley
Black Bean Quesadilla with Corn, Avocado, and Tomato Salsa	Beans	Cucumber, Corn, Avocado, Cilantro	Tortilla, Black Beans
Summer Salmon	Fish	Asparagus, Onion	Whole wheat linguine
BBQ Chicken Pizza with Garden Salad	Chicken	Mixed greens, red onion	Whole wheat English muffin
Roasted Veggie Farro Bowls with Marinated Cranberries & Pepitas	Grain	Sweet potato, potato	Farro
Hearty Spinach Salad	Chicken	Spinach	Croutons
Blackened Catfish with Cheddar Cheese Grits & Collard Greens	Fish	Collard greens, Onions	Grits
Bangin' Burrito Bowl	Beans	Peppers, Onions, Cilantro	Brown rice
Vegetable and Shrimp Stir Fry	Shrimp	Zucchini, carrots, snow peas	Brown rice
Honey Mustard Turkey Burger with Seasoned Fries	Turkey	Sweet potato, potato	Whole wheat hamburger bun
Baked Caprese Tortellini with Arugula Salad	Vegetarian	Tomato, Onions	Tortellini
Tilapia Creole	Fish	Tomato, Peppers	Brown rice
Chimichurri Cod with Roasted Carrots & Garlic Herb Couscous	Fish	Carrots, Cilantro	Couscous
Lentil Tacos with Mexican Salad	Grain	Onions, lettuce, tomato, avocado	Taco shell
Baked Pork Chops with Vegetables	Pork	Potato, Cauliflower, Carrots	Potato
Shrimp Scampi	Shrimp	Broccoli, onion	Whole wheat linguine
Chickpea-Powered Mediterranean Couscous	Beans	Thyme, zucchini, cherry tomatoes	Couscous



Story Prompts

FAMILIES

- Theme: Dinner time is family time
- Prompt: With all our day to day commitments, we may not have a chance to enjoy meals together.
 Share how dinner time is family time in your home.
 - How did the meal kits affect eating together as a family?



Story Prompts





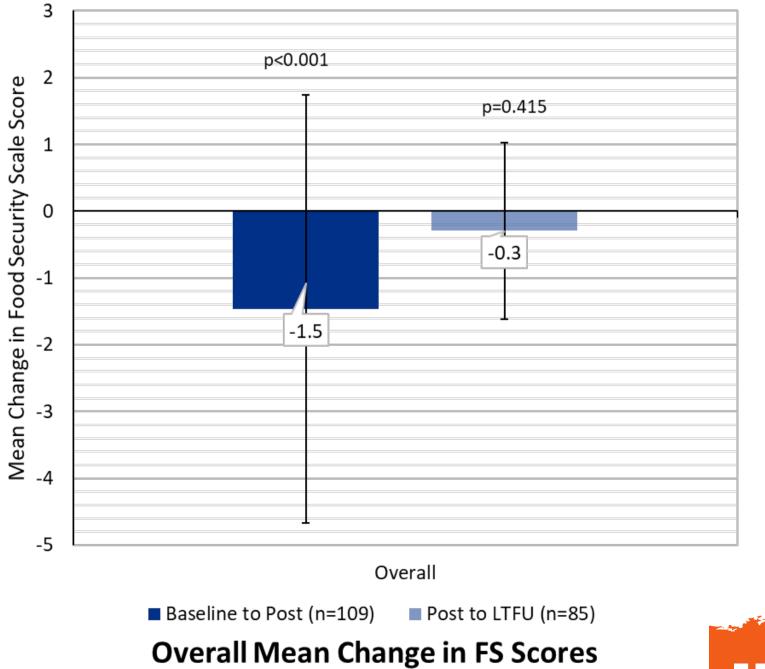
Students

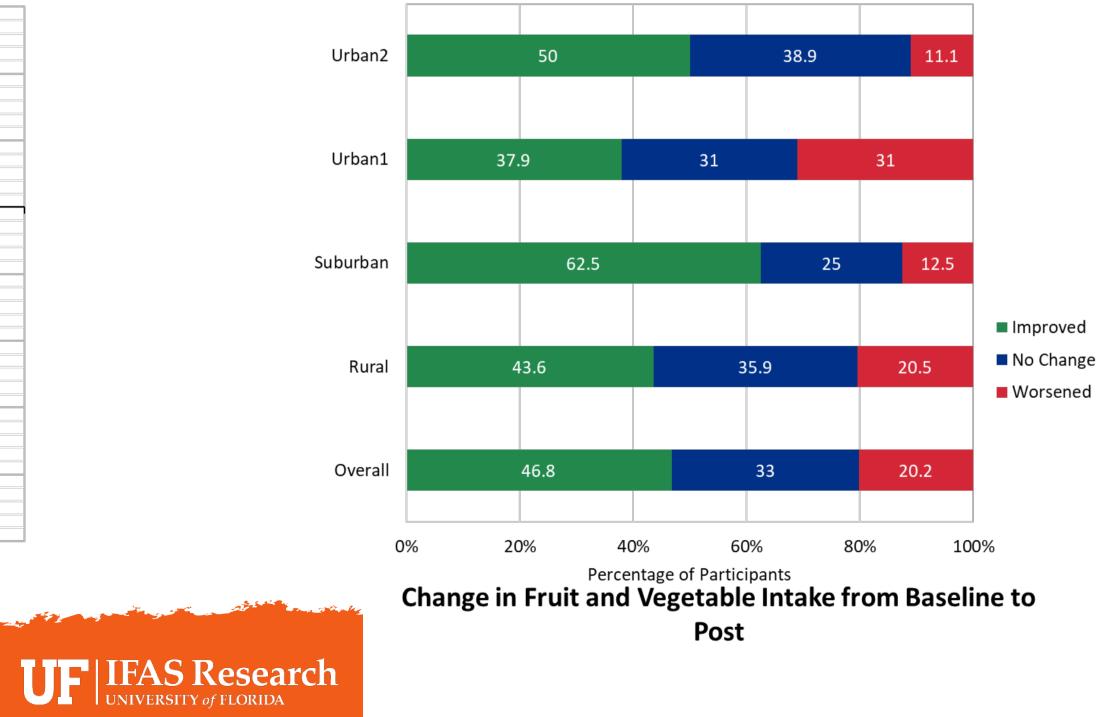
- Theme: Gardening makes me feel.....
- Prompt: Gardening can generate many feelings and emotions. Show us how you felt in class.
 - How do you feel when you are working in the garden and harvesting produce for your community?



RESULTS

Food Insecurity Decreased







Fruit and Vegetable Intake Increased

UF/IFAS Extension Books and Cooks



New Worlds Reading Initiative Vision

Create at-home libraries for eligible students

Establish community & statewide partnerships

Build excitement for reading through statewide promotional campaign



Develop teacher experts in the science of reading through microcredentials and create home school connections in literacy

Develop caregivers' confidence & capacity to support children's reading

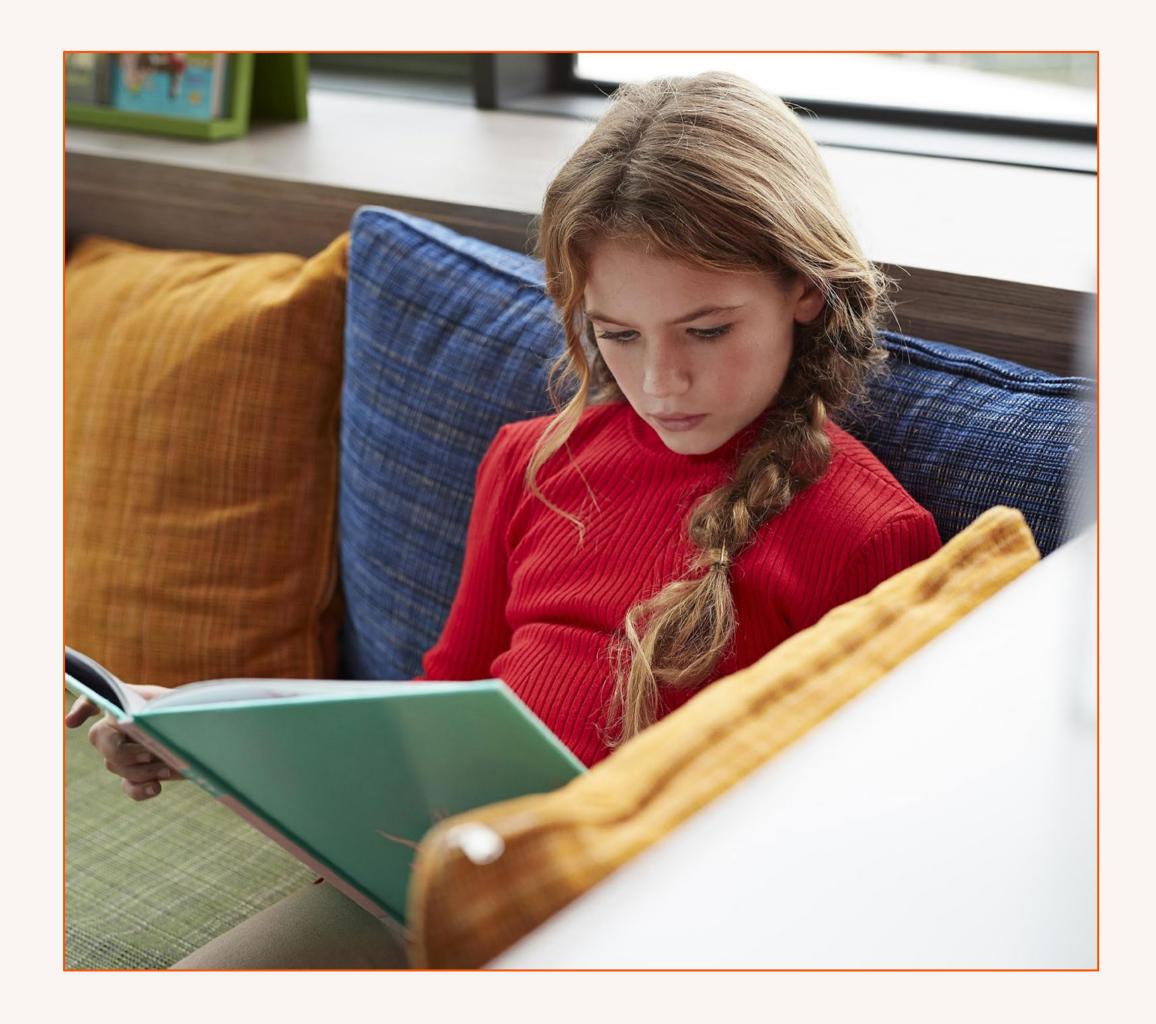


*Current Eligibility

Florida public and charter school students in <u>kindergarten</u> <u>through fifth grade</u> are eligible based on the following criteria:

Any student who has been identified as not yet reading on grade level based on The Florida Assessment of Student Thinking (FAST)

Any student who receives Tier 2 or Tier 3 reading instruction



New Worlds Reading Engagement at a Glance

Overview

- Attended **Community** Outreach Events
 - Community Health Fairs
 - · School Resource Fairs
 - Community Family Nights
 - · School Science Fairs
- Regional Outreach Efforts
 - District Information Sessions and emails
 - . Flyers Mailed to Every Elementary School
 - Flyers Distributed at Outreach Events
- Pop-Up Banners



Community Event

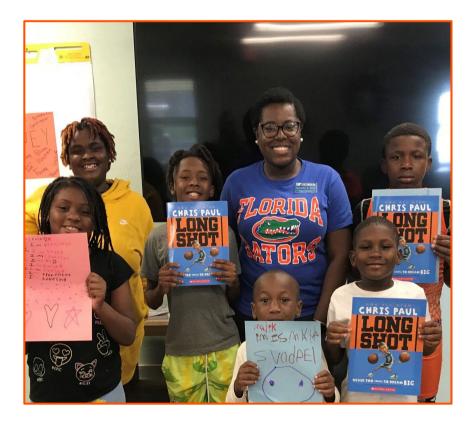


At The Capitol





Read Aloud



Housing Authority Tour

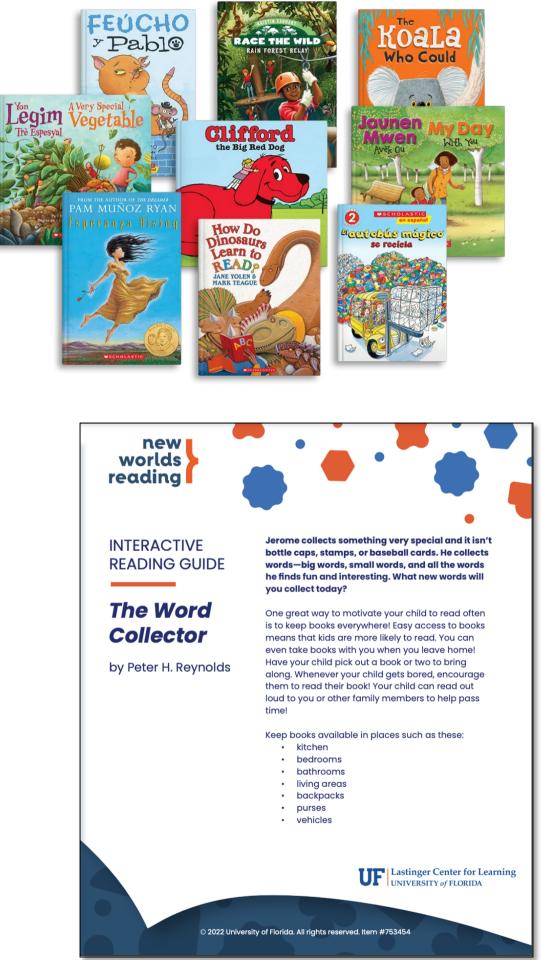


Literacy Resources

•Book Lists

 Interactive Reading Guides (IRGs)

•Videos

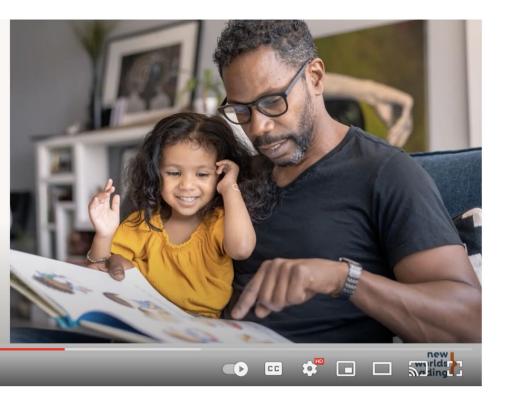




Things You Can Try At Home:

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Make your reading spot quiet and comfortable.



	MY STINK	Y SOUP RECIPE
2 spoo ½ cup 3 stear A pincl 1 chop A sprin Directi a pot, o	of	When you taste your stinky soup, what face will you make? Draw it here:
	recipe, and draw a fo	ace to show how it will taste!



BOOKS AND COOKS Goal and Objectives

Improve the literacy and **nutrition security** status of families from Florida communities with low income.

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Recruit Worlds
Develo steering Reading
Deliver curricu and im
Optimiz achieve and sur Cooks F

and enroll eligible families into the New Reading Initiative statewide.

p local partnerships through county-level g committees to guide New Worlds g recruitment and educational delivery.

the Books and Cooks educational Ilum to increase family literacy capacities prove nutrition security status.

ze program quality and assess the ement of outcomes through formative immative evaluation of the Books and Program.

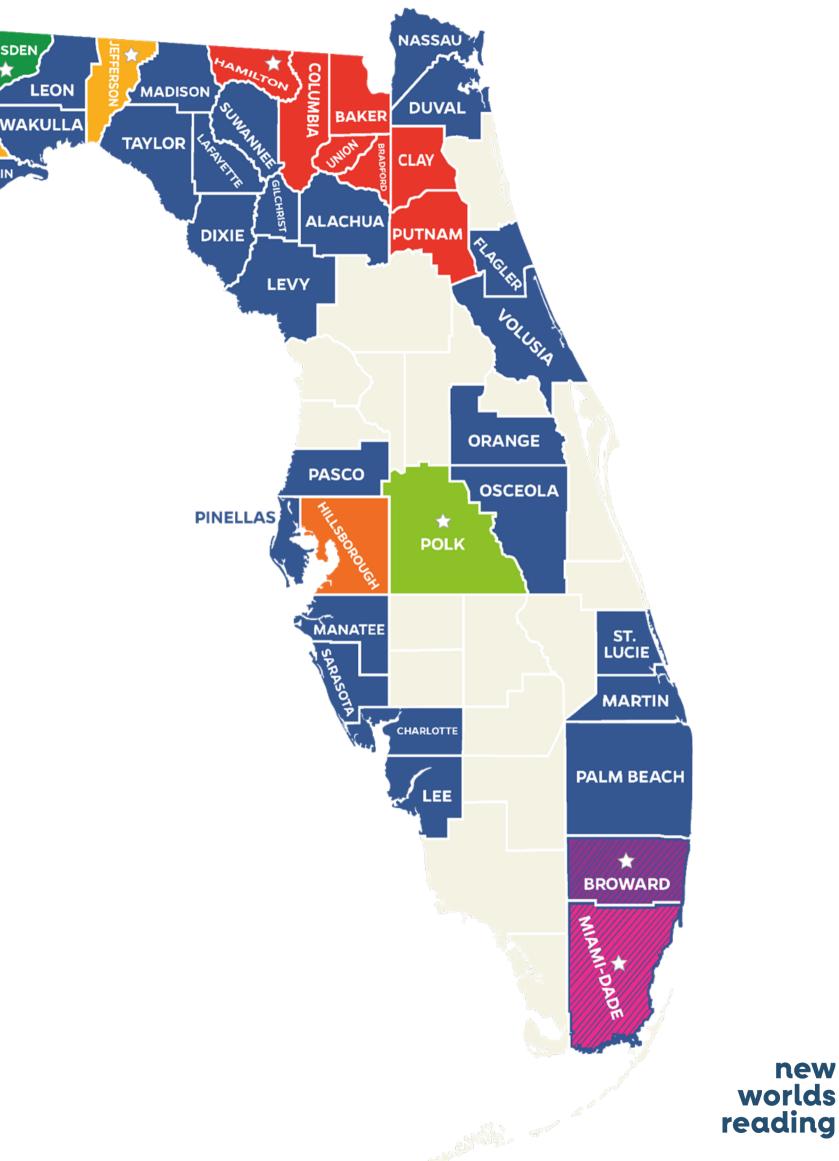
WALTON HOLMES/ KALOOS JACKSON SANTA ROSA GADSDEN GULF FRANKLIN

Objective 1:

Recruit and enroll eligible families into the New Worlds **Reading Initiative** statewide.







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Objective 2:

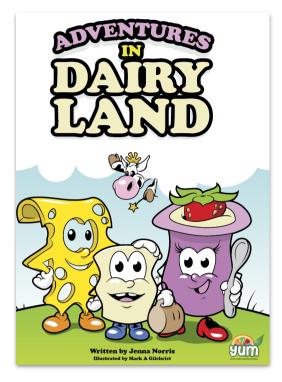
Develop local partnerships through county-level steering committees and networks to guide New Worlds Reading recruitment and delivery of the Books and Cooks program in 6 targeted counties.





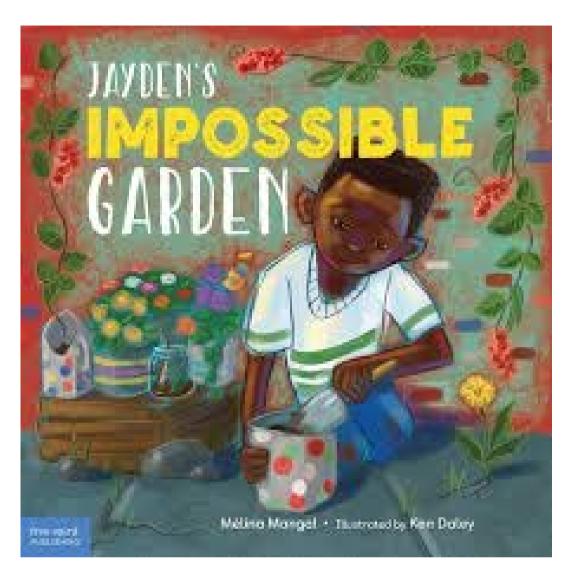
Objective 3:

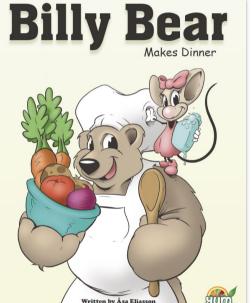
Deliver the **Books and Cooks** educational curriculum to increase family literacy capacities and improve nutrition security status.













- Educational sessions for parent-child pairs
- . Focus on parent skills
- Literacy and nutrition education
- Dinner, child care, and social time
- . Meal kits for families
- 6 free books per child







Objective 4:

Optimize program quality and assess the achievement of outcomes through formative and summative evaluation of the Books and Cooks program.





