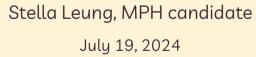




THE CHARLIE CART PROJECT













Outline





- The Charlie Cart Project (CCP) core components
- Logic Model (draft)
- Theoretical framework:
 - Social Cognitive Theory (SCT)
 - Socio-Ecological Model (SEM)













The Charlie Cart Project (CCP)



CCP's mission is to make hands-on food education accessible everywhere children gather to learn



Mobile Kitchen

A durable kitchen on wheels, with power, storage and sink



Equipment

All the tools and appliance you'll need to cook with students



Curriculum

Hands-on lesson plans for K-5, aligned to Math, Science and English Language Arts



Training & Support

Training and resources needed to maximize your program



Network

A forum for educators to share best practices and exchange ideas







Who is using the Charlie Cart?



More than 500 sites with educators from over 275 organizations in 46 states













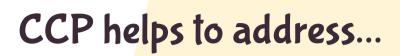












- A lack of cooking and nutrition education in schools*
- Poor fruit and vegetable consumption among children*
- Poor diet quality among children*
- Insufficient competent food educators (Conversation with CCP staff)

* 2014 Draft Evaluation Outline











- 1. A lack of cooking and nutrition education in schools
- 2. Training foo<mark>d educators</mark>

U.S. Centers for Disease Control and Prevention

"Nutrition education is a vital part of a comprehensive health education program and empowers children with knowledge and skills to make healthy food and beverage choices.

US students receive less than 8 hours of required nutrition education each school year, far below the 40 to 50 hours that are needed to affect behavior change."

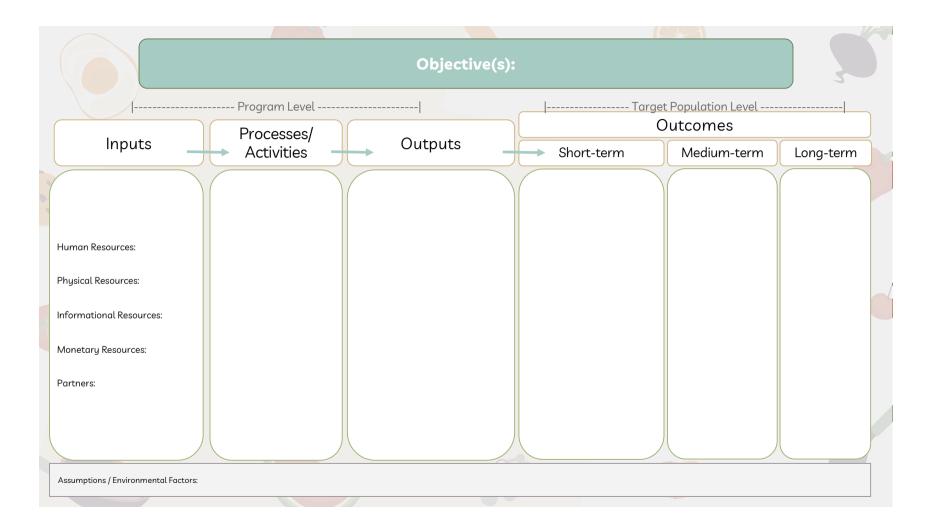
https://www.cdc.gov/healthyschools/nutrition/school_nutrition_education.htm











- Program Level -----|

|-----Target Population Level -----

Short-term

Inputs

Processes/ Activities

Outputs

Outcomes

Medium-term

Long-term

Human Resources:

- Project: program director admin, curriculum developers, trainers, M&E
- Supply chain/equipment: cart equipment purchaser, maintenance personnel
- Operation/Partnership
- Media: communication, promotional materials, website/graphic designer
- website/graphic designeSite: school/site staff,volunteers

Physical Resources:

- Mobile kitchen cart
- Equipment in cart
- Food ingredients

Informational Resources: - CCSS, ELA, NGSS, C3

Partners: Schools, learning centers, organizations
Project funding

Develop self-contained mobile cooking carts

Connect with suppliers and purchase the kitchen cart and equipment

Develop curriculum

Develop introductory training session

Develop monthly training curriculum & webinars

Connect with potential partners, orgs, educators

Create and maintain network forum

Develop monitoring & evaluation tools

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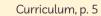
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https://www.cdc.gov/healthyschools/nutrition/school_nutrition_education.htm



"We believe that by teaching students to master a very basic set of skills through repetition, their comprehension of each skill deepens and their self-confidence grows. This mastery through repetition is a proven learning tool for cooking, reading, writing, mathematics, and more."













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Increase food systems knowledge Increase familiarity with whole food, and food categories

Increase knowledge of healthy recipes

Increase # of food tasted
Increase # of cooking tool/skill used

Increase ability to prepare healthy food

Increase # of healthy food/snacks (in-class)

Reinforce learning in Science, Math, English Language Arts, Social Studies Children

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(Same as for children)

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Knowledge and attitude change for educators (# of time they modeled)

Children

everywhere children gather to learn.

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Healthier food choices

Increase meals using healthu recipes

Increase dailu & veaetables

Enhance food preparation skills at home

Continual behavioral change

Persistent competency

Regular hands-on cooking classes for all children in the school

Educators



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Medium-term

Increase meals using healthy recipes

Increase daily consumption of fruit & vegetables

Enhance food preparation skills at home Improved overall nutrition and health (for participants & their families)

Greater food literacy among children

(Same as for children)

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Knowledge and attitude change for educators (# of time they modeled)

Increase # hours of hands-on food education

Increase support for food educators

Continual behavioral change

Persistent competency

Regular hands-on cooking classes for all children in the school Greater food literacy among educators

Institutional policy in placed for 40 hrs/year of hands-on food education Educators

Childrer

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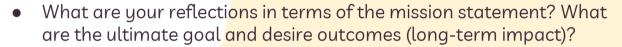
Institutional policy in placed for 40 hrs/year of hands-on food education

Assumptions: schools/orgs see needs of hands-on food education and purchase CC, regular usage of CC, having regular sessions for the same group of children, educators have helpers to assist in classes, ongoing funding, sufficient staff to support CCP

Children

Educators





 How is the CCP's approach of mastery through repetition being implemented? What are the staff capacities in monitoring this type of process evaluation?



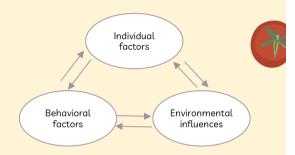








- 1. Best supported by Social Cognitive Theory (SCT)
 - SCT explains human behavior in terms of a three-way, dynamic, reciprocal model in which personal factors, environmental influences, and behavior continually interact.



- A basic premise is that people learn not only through their own experiences,
 but also by observing the actions of others and the results of those actions.
- o In group nutrition programs, activities such as cooking demonstrations, problem-solving discussions, and self-monitoring are rooted in SCT. (Glanz, 2021)
- 2. Additional support: Socio-Ecological Model









Self-Efficacy

Knowledge

Behavioral
Capacity

Opportunities

Observational

Barriers &

Reciprocal Determinism

Social Support

The confidence a person feels about performing a behavior, and about overcoming the obstacles to performing it.

Confidence is enhanced through mastery experiences, social modeling, verbal persuasion, and practice under stress-free conditions.

Bandura has viewed this as the most important predictive construct in $\ensuremath{\mathsf{SCT}}$

Knowledge is an understanding of the health risks and benefits of different health practices and the information necessary to perform a behavior.

Knowledge of risks and benefits is a precondition for change. Information is also needed to perform certain behaviors.

E.g., to cook a health meal one needs to know a recipe, where to purchase healthy ingredients, and methods of preparation.

Behavioral capacity/skills - the abilities needed to successfully perform a behavior. E.g., plauing a sport, or preparing a healthy meal.

Knowledge and skills together comprise what is called *Behavioral* capability.

Environmental

Self-Efficacy Knowledge

> Behavioral Capacity

Barriers & Opportunities

Observational Learning

Determinism

Social Support

Attributes of the social or physical environment that make behaviors harder or easier to perform.

A type of learning in which a person learns new information and behaviors by observing the behaviors of others and the consequences of others' behaviors.

Accomplished by observing an influential role model or peer-leader performing a behavior and achieving an outcome.

There is an "interactive loop" between individuals and an environment. The interactive process of *reciprocal determinism*, where an individual interacts with an environment, receives a response from the environment, adjusts behavior, interacts again, etc.

Social Support - the perception of encouragement and support a person receives from his/her social network.

Interventions seek to provide informational, instrumental, or emotional support (through, e.g., program flyers, offers to babysit, or a sympathetic conversation) for behavior change.

Social support not only aids adherence to a new behavior but also contributes to perceived self-efficacy.

Goal: CCP's mission is to make hands-on food education accessible everywhere children gather to learn.

	Self-Efficacy	Knowledge	Behavioral	Barriers &	Observational	Reciprocal	Cooled Cumport	CCP components
	Sett-Efficacy	Knowledge	Capacity	Opportunities	Learning	Determinism	Social Support	CCP components
		✓						Knowledge of food & nutrition
		√	√	V	√	V		Tasting new food
	V	V	V	√	V	√		Learning new cooking skills
	V		V	√	V	√		Practicing new cooking skills
	V	√	√	V	V			Learning new recipes
			√	✓	V	✓		Eating healthy snacks/food (in- class)
	V	√	V	V	√			Trainings & Webinars
		V				R	V	Network Forum

Socio-Ecological Model (SEM)

Individual

knowledge, attitudes, skills, behaviors Interpersonal

Families, friends, social networks

Organizational

organizations, social institutions

Community

Relationships between organizations Public Policy

State, local laws & regulations

Goal: CCP's mission is to make hands-on food education accessible everywhere children gather to learn.

Social Cognitive
Theory

Self-Efficacy

Knowledge

Behavioral Capacity

Barriers & Opportunities

Observational Learning

Reciprocal Determinism

Social Support

cio-Ecological

Improved overall nutrition and health (for participants & their families)

Greater food literacy among children

Healthier food choices

Increase meals using healthy recipes
Increase daily consumption of fruits & vegetables

Enhance food preparation skills at home

Increase knowledge and understanding of the connections between food, health, & environment

Increase familiarity with fruits, vegetables, & other whole foods Increase knowledge of healthy recipes

Increase # of food tasted

Increase # of cooking tool/skill used

Increase ability to prepare healthy food

Increase # of healthy food/snacks (in-class)

Reinforce learning in Science, Math, English Language Arts, Social Studies

Knowledge of food & nutrition
Tasting new food
Learning & practicing new cooking skills
Learning new recipes
Eating healthy snacks/food (in-class)

Greater food literacy among educators

Continual behavioral change

Persistent competency

Institutional policy in placed for 40 hrs/year of hands-on food education

Regular hands-on cooking classes for all children in the school

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Increase # of competent food educators / # of lesson provided with high fidelity

Knowledge and attitude change for educators / # of time they model

Increase # hours of hands-on food education

Increase support for food educators

Trainings & Webinars

Network Forum

Socio-Ecological Model

Individual

Interpersonal

Organizational

Community

Public Policy





- Recommendations:
 - Refine mission statement
 - Determine SMART objectives
 - Update logic model
 - Monitoring and evaluation plan will come naturally once the above are clarified





















Stella Leung, PA-C, MPH candidate Global Health Program Design, Monitoring & Evaluation Milken Institute School of Public Health stellaleung@gwu.edu













Updated logic model

August 1, 2024

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Processes/ **Activities**

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Medium-term Long-term

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- Food ingredients

Informational Resources:

- CCSS, ELA, NGSS, C3
- Curriculum (54 lesson plans)

Partners: Schools, learning centers, organizations

Project funding

Develop self-contained mobile cooking carts

Connect with suppliers and purchase the kitchen cart and equipment

Update curriculum periodicallu

Develop introductoru training session

Develop monthly training curriculum, webinars. professional development sessions

Connect with potential partners, oras, educators

Create and maintain network forum

Develop monitoring & evaluation tools

Mobile kitchen unit with equipment / # of complete mobile unit

Updated curriculum

Introductory training session / # of training session provided

Monthly virtual trainings / # of webinars created and provided / # of professional development sessions

- # school/sites equipped with CC
- # of staff/educators trained to use CC and curriculum
- # of students participated in the CC curriculum / # of lesson used for each group of students
- # of CC used & freq of usage

Teacher & Student interview guide & surveu

Increase food sustems knowledge Increase familiarity with whole

Increase knowledge of healthu recipes

Increase # of food tasted

food, and food categories

Increase # of cooking tool/skill used Increase ability to prepare healthy food

Increase # of healthy food/snacks (in-class)

Reinforce learning in Science. Math, English Language Arts. Social Studies

Healthier food choices

Increase meals using healthu recipes

Increase dailu consumption of fruits & veaetables

Enhance food preparation skills at home

Improved overall nutrition and health (for participants & their families)

Greater food literacy among children

(Same as for children)

Increase # of competent food educators / # of lesson provided with hiah fidelitu

Knowledge and attitude change for educators (# of time theu modeled)

Increase # hours of hands-on food

Increase support for food educators

Continual behavioral change

Persistent competency

Regular hands-on cooking classes for all children in the school

Greater food literacy among educators

Institutional policy in placed for 40 hrs/uear of hands-on food education

Assumptions: schools/orgs see needs of hands-on food education and purchase CC, regular usage of CC, having regular education sessions for the same group of children, educators have helpers to assist in classes, ongoing funding, sufficient staff to support CCP

------ Program Level --------I----- Target Population Level -----

Inputs

Processes/ Activities

Outputs

Outcomes

Medium-term

Long-term

Human Resources:

- Project: program director admin, curriculum developers. trainers M&F
- Supplu chain/equipment: cart equipment purchaser. maintenance personnel
- Operation/Partnership
- Media: communication. promotional materials. website/araphic designer
- Site: school/site staff. volunteers

Phusical Resources:

- Mobile kitchen cart Equipment in cart
- Food ingredients

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Short-term

Increase knowledge of healthu recipes

Increase # of food tasted

food, and food categories

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Childrer

Educators