

NEISD COOKING FOR HEALTHY KIDS CULINARY TRAINING



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The Culinary Institute of America

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Welcome to the CIA!

Education is a gift. Those of us in the food service industry have a chance to "pay it forward" by sharing our gifts with others. For over 75 years, the Culinary Institute of America has provided students with unparalleled training, setting the gold standard for culinary excellence.

Providing our children with nourishing and healthy school meals is critical to their ability to learn, develop, and grow. We are excited to offer you this training and the tools to make better-tasting and healthier meals. The techniques and recipes you will learn this week have been field-tested and kid approved.

We want you to have the best experience possible during your training. If you have any questions, please ask your instructors or contact me directly at the number below. Once your training is complete, please feel free to stay in touch—we always enjoy hearing your success stories.

Wishing you all the best,

David Kamen '88 MBA PCIII

Director CIA Consulting

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P.S. Did you know that the CIA is an independent, not-for-profit college? As such, your tuition supports our core mission of providing the world's best professional culinary education. If you'd like to further support the future of food with the gift of education, please visit www.ciagiving.org.

EXPECTATIONS FOR PARTICIPANTS

	No	cell phone use or text messaging during class
V	Ac	tively participate
V	Re	turn promptly from breaks
V	Re	main in attendance for the class duration
V	Со	mplete the course evaluation
V	Fo	llow all established health and safety regulations
	0	In addition to the precautions necessary to guard against food-borne illness, care must also be taken to avoid accidents. The following safety measures should be practiced.
		 Wash hands before beginning work in the kitchen
		 Keep all perishable items refrigerated until needed
		NYS law: When handling "ready-to-eat" food items, if you don't cook them, glove them!
		 Wash hands, cutting boards, knives, etc., when switching between meats and vegetables

- ☑ Maintain proper uniform standards
- ☑ Act within the guidelines of the CIA's policy on harassment
 - The Culinary Institute of America (CIA) is committed to providing a working and learning environment free from harassment. Members of the CIA community, guests, and visitors have the right to be free from any form of harassment (which includes sexual misconduct and sexual harassment) or discrimination; all are expected to conduct themselves in a manner that does not infringe upon the rights of others.

PROGRAM OVERVIEW

Welcome to **Cooking for Healthy Kids**, a joint educational project of The Culinary Institute of America (CIA) and the CIA's Healthy Kids Collaborative (HKC) membership. *Cooking for Healthy Kids* was created to provide significantly enhanced culinary training to school nutrition professionals nationwide who serve school meals under the USDA program. This will jumpstart the critical culinary education that school nutrition professionals need and serve as a model for a successful national culinary training program and related professional development for the K-12 sector. The overall goals of the *Cooking for Healthy Kids* training are to:

- Improve the culinary skill level of school nutrition professionals.
- Increase the quality and appeal of meals served to students.
- Increase the consumption of vegetables, fruits, whole grains, plant protein, and lean meats within the context of balanced menu planning for school-aged children.

This program is an outgrowth of the CIA's Healthy Kids Collaborative (HKC)—a network of thought-leading school nutrition professionals, chefs, suppliers, and other stakeholders working together to advance culinary-driven, healthy, flavorful foods for kids since its inception in 2015. This five-day training curriculum is based on the model created and implemented within the Indiana Department of Education by HKC Chair Catharine Powers, MS, RDN, LD of Culinary Nutrition Associates, LLC.

Working with HKC members and other external program partners convened in 2019 as part of a Cooking for Healthy Kids Alliance, the long-term vision of *Cooking for Healthy Kids* is to create a national culinary training initiative that supports and accelerates the evolution of US school foodservice into a sector of nutrition excellence and high culinary competency and one that is a significant driver of food system sustainability; a catalyst for overall student health, engagement, and performance; a contributor to reducing childhood hunger; and a cultivator of behaviors toward healthy, plant-forward dietary patterns.

The CIA and the Healthy Kids Collaborative are grateful to the Mother Cabrini Health Foundation for their generous support of developing and launching the *Cooking for Healthy Kids* culinary training pilot program in New York State during the summer of 2022. Additionally, the CIA appreciates HKC members, namely Rebecca Polson, Samantha Cowens-Gasbarro, Chela Cooper (among many others), and colleagues in the New York City Department of Education and Poughkeepsie City School District for their enthusiastic support and insightful contributions to the refinement of this curriculum which was created by Catharine Powers with title page graphics by Tami Petitto of Petitto Designs. For more information, please visit www.ciahealthykids.org.

TRAINING OVERVIEW, LEARNING OBJECTIVES, AND SCHEDULE

This Cooking for Healthy Kids training will focus on basic culinary skills needed by school food service professionals to prepare and serve more fruits, vegetables, whole grains, and salads while enhancing flavors and meeting the demands of today's guests. These basic culinary skills will help schools offer delicious foods and meals that support the Dietary Guidelines for Americans and school nutrition standards that kids want to eat!

After completing the training, participants will be able to:

- Apply the essential concept of *mise en place* and understand the benefits of kitchen organization.
- Demonstrate healthier cooking methods that apply the nutrition principles of the *Dietary Guidelines for Americans*.
- Properly handle and use a chef's knife.
- Demonstrate roasting, steaming, blanching, and quick pickling of vegetables.
- Learn and apply scratch baking principles and techniques.
- Enhance flavors of foods using herbs, spices, culinary acids, and other ingredients.
- Present school meals attractively and appealingly.

Each day of the hands-on class day will have five components:

- 1. Culinary Lecture and Demonstration
- 2. Practical Kitchen Experience
- 3. Technique / Recipe Evaluation
- 4. Kitchen Keys
- 5. Nutrition Keys

The three culinary skills labs focus on healthier ways to prepare and present food at school. These labs feature recipes related to school meal components. The culinary labs are:

- 1. Culinary Basics (mise en place and knife skills)
- 2. Preparing Vegetables for Greater Appeal
- 3. Scratch Baking Principals and Techniques

Each laboratory involves preparing, presenting, tasting, and evaluating items. Throughout the three-day training, the class will prepare many recipes. Each team will be responsible for at least two recipes in each lab; however, all participants will taste and evaluate all the finished products.

COOKING FOR HEALTHY KIDS 3-DAY WORKSHOP

The morning section will be hands-on learning, and the afternoon will be classroom learning.

	Monday – Day 1	Tuesday – Day 2	Wednesday – Day 3
8 am to 9:30 am*	Culinary Basics:	Cooking Vegetables for Greater	Scratch Baking Principals and
Culinary Lecture &	Mise en place and	Appeal	Techniques
Demonstration	Knife Skills		
9:45 am to 12 noon	Everyone will practice knife skills	Each team will prepare 3	French Bread (yeast bread)
Practical Kitchen Experience	by cutting a variety of fruits and	vegetable dishes (steamed,	Quick Breads
	vegetables	roasted, and chilled)	Scratch Biscuits – folding
			technique
LUNCH 12 to 1 pm	LUNCH 12 to 1 pm	LUNCH 12 to 1 pm	LUNCH 12 to 1 pm
1 pm to 1:30 pm	Evaluation	Evaluation	Evaluation
Technique/ Recipe Evaluation			
1:30 pm to 2 pm	Measures: weights and volumes	Herbs and spices	Reducing kitchen inventory and
Kitchen Keys		Spice Blends	ingredient versatility
2 pm to 3 pm	Nutrition in school meals:	Reducing sodium	Review key learnings and
Nutrition Keys	-Introduction to Dietary	Enhancing flavor	discuss implementation
	Guidelines and Nutrition		
	Standards		
	-Behavioral economic		
	techniques for NEISD serving		
	line		

^{*}Start and end times may vary.

LAB RESPONSIBILITIES

To help you to get the most out of the lab experience:

- 1. Go into the lab with a positive attitude to contribute and have fun.
- 2. Read the recipe carefully. Ask questions if something is not clear.
- 3. Select a team leader for each lab. Rotate among team members.
- 4. The team leader will keep everyone on task and on time.
- 5. The team leader will coordinate responsibilities with each team member.
- 6. The team leader will present product to the class for evaluation and discussion.
- 7. Each participant should taste the product as it is being prepared.
- 8. Each person should evaluate the product.
- 9. Each team member will help clean up and organize the station.
- 10. Each team will "re-set" their workspace for the next lab.

MISE EN PLACE AND ORGANIZATION

Mise en place is about having *everything in place* for the task. It begins with the organization of you and your team, ensuring each member understands their assignment for the laboratory. The team should read the recipes before beginning any preparation and make a time and task schedule for each part of the task—including how the products will be presented. After the team is organized, assemble all ingredients and supplies before beginning the preparation. This is mise en place—getting it all together.

PREPARATION

Preparation begins with an understanding of the recipe or procedure to be followed. It involves:

- 1. assembling all ingredients and equipment.
- 2. weighing and measuring ingredients.
- 3. understanding the cooking method.
- 4. preheating equipment if required.

Unless the training team suggests a modification, the recipe or procedure should be followed exactly. Preparation also includes a plan for how it will be presented on the service line, including how it will be portioned and served.

TASTING AND PRODUCT EVALUATION

Each team prepares its products for presentation on the service line with an appropriate serving utensil. Each team describes the products and any unique aspects of the preparation. The leader identifies a nutrition principle involved in the preparation; the cooking method, flavor-enhancing techniques, and special culinary techniques.



Culinary Basics

Day One Culinary Basics

Lesson-at-a-glance

Introductions and Orientation	Introductions Culinary skills orientation Team organization	30 minutes
Culinary demonstration	Successful kitchen production Kitchen organization (mise en place) Knife use	90 minutes
Hands-on	Preparing fruits and vegetables Cutting vegetables Cutting fruits	90 minutes
Evaluation and discussion		15 minutes
Clean up		15 minutes

SUCCESSFUL KITCHEN PRODUCTION

Staff Readiness

- Clean uniform, apron, and hair covering.
- Hands washed.
- Comfortable, closed-toe, non-skid shoes.
- Attentive.

Game Plan Organization

- What am I going to make?
- How much am I going to make?
- How much space will I need?
- How much time will I need?

Equipment

- What equipment will I use to prepare the product?
- What equipment will I use to cook the product?
- What will I serve the product in?
- What utensils do I need?

Food

- Gather the ingredients needed in the correct amounts to produce the recipe.
- Keep perishable items refrigerated.
- Prevent cross-contamination with proper sanitation practices.

Cooking

Pre-preparation:

- Washing.
- Cutting slicing, dicing, etc.
- Seasoning.

Preparation:

- Start the item with the longest cooking times first.
- Clean as you go.

Finishing:

Finish items as close to service as possible.

Serving

Set up service line:

- Trays, bowls, serving spoons, etc.
- Hot food hot, cold food cold.
- Food is arranged properly on the service line.

COOKING GUIDELINES

PRIORITIES IN FOOD PREPARATION AND SERVICE

Taste

The most important goal when preparing food is to make it taste GREAT.

Taste is affected by:

- Proper seasoning
- Execution of fundamentals
- Texture: consistency (viscosity), crunchiness, smoothness, etc.
- Freshness and quality of the product

Presentation

The appearance of food comes second only to taste in terms of importance. Some of the things that impact on presentation are:

- · Portion size
- Proper food placement or arrangement
- Composition (avoid repetition of the same colors, preparation methods, etc.)
- Execution of fundamentals (properly and uniformly cut meats, vegetables, etc.)

Degree of Doneness / Proper Cooking

- Meats are cooked to the required temperature...but not overcooked.
- Vegetables are tender but not mushy.
- · Grains are tender but not overcooked.

Temperature

- Hot foods hot
- Cold foods cold, on cold plates

Summary

Before we serve any meals from our kitchens, we should be able to answer "YES" to each of the following questions:

- Does it taste good?
- Does it look good?
- Is it cooked properly?
- Is it the correct temperature?

MISE EN PLACE

Everything in its place and a place for everything

Organization of yourself and your workspace is an essential skill that will make kitchen work easier and more efficient. Mise en place, a French term commonly used to express kitchen or workspace organization, requires planning and anticipation of the entire task.

Benefits of Mise en Place

- Increased speed and efficiency (e.g., cooks not running around gathering ingredients and equipment throughout product production)
- Professional appearance of workstation--critical in open kitchens or other situations where customers can view production
- Sanitary conditions are more easily maintained (e.g., products are held at the correct temperatures, which helps to avoid cross-contamination)

Kitchen Organization Should Include:

- 1. The recipe(s) and ingredients needed to complete the task
- 2. Food safety and sanitation needs
- 3. Small and large equipment needed. Consider equipment needs throughout the process, including the final container holding the product
- 4. Planning the time allotted to the process
- 5. When working in teams, identify how team members divide the tasks

Workspace Organization

- Recipe
- Recipe ingredients
- Cutting board (set board on a wet paper towel or antiskid mat to prevent it from sliding)
- Chef knife and paring knife, peeler if needed
- · Refuse pan
- Small equipment utensils, pans, service pans
- Large equipment ovens, steamers, steam jacketed kettles, tilt skillet

Organization and Workflow

- Table height and cutting board at correct height for individual.
- Organization appropriate for individual preferences (e.g., right, or left-handed individuals).
- Products are maintained at appropriate temperatures.

KNIFE SELECTION

Knives come in all shapes and sizes. Understanding the function of various knives will also help you pick the right one for the job.

Chef Knife: An all-purpose knife used for most cutting and dicing. Chef knives are versatile tools that can be used for most tasks. They are available in sizes ranging from 6" to 12" (8" is standard). Choosing a knife, you can grip securely would be best—larger knives tend to fit best in larger hands. Chef knives with forged blades can be used for heavy-duty tasks such as cracking and chopping, while thinner, more flexible stamped blades work best for delicate tasks such as removing melon rinds.



Boning Knife: A knife with a narrow blade used to cut around the bones in meat during butchering. Boning knives are specialized knives used to de-bone poultry, smaller red meat cuts, and fillet fish.



Paring Knife: This tool is mostly used for peeling fruits and vegetables, but it also slices small soft foods such as olives and mushrooms well.



Slicer: Long knife used for carving meats.



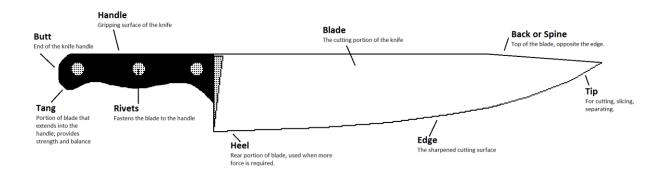
Serrated knife: not designed for cutting or chopping tasks. They are highly specialized knives designed for slicing breads and cakes. Slicers have less defined teeth and are "smoother" than standard serrated knives. Slicers are typically used only for carving meats.

Utility knives: primarily used for slicing. They are good with delicate foods such as fruit, small roasts, and poultry.

Sharpening Steel: Used for honing the edge of a knife.



KNIFE PARTS AND FUNCTIONS



Blade

The most common blade material is stainless steel, which is either forged or stamped. Forged blades are molded into shape and are generally heavier and more durable, with a prominent heel at the base of the blade. Stamped blades are cut from a solid metal sheet and are more lightweight but dull more quickly. Stamped blades are common on inexpensive, low-quality knives, but high-quality stamped blades can also be found. Stainless blades of both types are easily sharpened.

Handle

Wood has traditionally been used for knife handles but is replaced by plastics and laminated wood. Wood warps when wet and can harbor bacteria, making cleaning difficult. Plastic handles are often found in commercial kitchens because they are easy to clean and require no special care. Plastic is often used on stamped knives that do not have a full tang, an extension of the blade to which the handles are attached. On forged knives, the tang continues through the length and width of the handle. The handle is attached to the tang using three rivets.

Tip or point used for small incisions, around bones, punctures, and detailed work **Back or spine** gives the blade appropriate stability and flexibility. Its thickness

varies depending on the knife's style and intended uses.

Heel the end of the guard, used to break through small bones or shells

Edge primary cutting surface of the knife

Bolster attachment point between the handle and the blade provides stability and

is found on higher-quality knives.

Tang runs through the handle (full tang) and provides balance and stability to

the knife.

Rivets connect the handle to the tang.

SHARPENING KNIVES

A sharp knife is safer than a dull one. Sharp knives glide evenly through food, while dull knives tug, requiring more force.

KNIFE SHARPENERS

Sharpening stones may sharpen knives, but they require a certain skill.

Electric and hand-held knife sharpeners are designed to imitate the motion of a sharpening stone. When using knife sharpeners, the key is to use a single smooth motion as you pass the blade through. Jerks or pauses result in an uneven, gouged blade that may require professional attention.

sharpening steels do not sharpen knives, despite their name. Sharpening steels keep your knife blade sharp in between sharpening by re-aligning the microscopic burrs that make up the fine edge of your blade. Once the burrs are broken or bent, a sharpening steel will no longer help. To use a sharpening steel, hold your knife at a 20° angle against the steel and run it from tip to heel in one smooth motion. The safest way to use sharpening steel is to hold it point-down against a countertop or worktable, sweeping your knife against it blade-down.

STORING KNIVES

- Protect the blade of your knife when it is stored to keep it sharper. Magnetic
 knife strips or commercial knife blocks work best. If knives are stored in a drawer,
 protect the blade.
- Snap-on knife guards.
- Slice-in knife guards.

USING YOUR KNIFE

Rules for Knife Safety

- ✓ Securely hold your knife
- ✓ Anchor cutting boards
- ✓ Fingertips curled back
- ✓ **E**yes on the knife
- ✓ **T**ake your time
- ✓ Yield to falling knives

ADDITIONAL SAFETY RULES FOR KITCHEN CUTLERY

- Always use a sharp knife. A sharp knife is safer than a dull knife because it requires less cutting pressure. If sharp, the knife will not slip as easily, and your hand will not tire as quickly.
- Use the correct size and type of knife for the job.
 - French knife basic chopping and dicing
 - Boning knife removing bones from meats and poultry
 - Slicer slicing meats, poultry, and breads
 - Paring knife peeling fruits and vegetables
- Hold the knife firmly in your hand and cut away from your body. Always use a cutting board.
- Always place knives on flat surfaces away from the table's edge, with the blade facing away from you. Never cover a knife with towels or other materials; keep it in sight of everyone.
- Do not grab a knife blindly; reach deliberately for the handle. Do not grab a knife if it falls off the table.
- When handing a knife to another person, point the handle toward them.

CUTTING BOARDS

Cutting boards come in many shapes and sizes. Choosing the correct cutting board is as important as choosing the correct knife! There are three important characteristics you should look for when selecting a cutting board:

- Easy to clean and sanitize.
- Protect the edge of your knife from becoming dull too quickly.
- Rough enough to keep your food from moving around as you chop.

It is also important to prevent the cutting board from moving around during use.

- Cutting boards with rubber feet: Limits you to using only one side of the cutting board
- Cutting boards with grippers in the corners: both sides can be used.

Non-slip mats: used to secure any cutting board. If none of these are available, a
good substitute is a damp (not wet!) dishcloth. Place it under the cutting board,
then try to slide the board around before you start cutting. If the cutting board
slides, re-dampen the cloth.

Cutting Board Type	Pros	Cons
Plastics	Do not dull knives	Thinner boards (home-
High-density polyethylene	Can be washed in the	style) cannot be resurfaced
or PE	dishwasher	
	Can be bleached	
	It can be resurfaced to	
	remove deep	
	grooves	
Plastic chopping mats	Cheaper than cutting	Warp when washed in the
	boards	dishwasher
	Easy to transfer cut foods	Do not protect the knife
	Can be bleached	blade as well as thicker
		cutting board
Wood	Do not dull knives	Cannot be washed in the
Hard rock maple or cherry		dishwasher
hardwoods are less porous		Will not stand up to
		repeated bleaching
		Some cannot be resurfaced
		Cheaper wooden boards
		easily warp and crack
		Heavier
Bamboo	Absorbs little moisture	Gets worn or "furry" after a
Harder and even less	Resists scarring from	lot of use. Splinter
porous than the	knives	eventually
hardwoods		

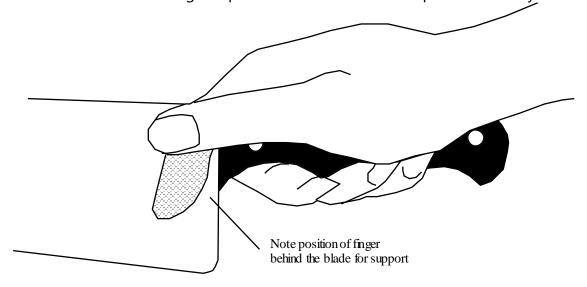
HOLDING A KNIFE

The most secure way to grip a knife is by gripping the top of the blade firmly between your thumb and forefinger. Place your middle finger just behind the heel. This grip may take some time, but it gives you maximum control over your knife and allows you to pivot from the wrist when chopping.

Top View—Some cooks prefer to grip the knife by the handle, allowing the thumb and index finger to rest on the blade for support. However, an individual's preference to hold the knife in other ways is acceptable.



Side View - Note: The finger is placed behind the blade to provide stability.



CUTTING TECHNIQUES

- Food cut to specific sizes and shapes can be very useful.
- Consistently sized pieces cook evenly and at the same rate.
- Decorative cuts are pleasing to the eye and allow the food to garnish.

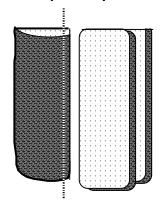
CUTTING FOODS

- Squaring off is helpful for most types of food. Make straight cuts with your fingers curled back to create a flat surface on all four sides. This also eliminates the need to peel vegetables before cutting them.
- Make a series of slices or planks straight down through the food.
- These slices can be stacked or cut individually into sticks, batonnet, or julienne.
- Sticks can then be cut into cubes or dice.
- Cuts should be made by lifting the heel end of the knife off the cutting board, then slicing forward and down in a single smooth motion.

Onions:

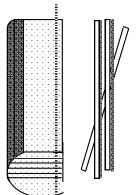
- 1. Cut the stem end off, leaving the hairy roots.
- 2. Place the onion on the newly cut flat side and slice straight down through the middle of the root end to cut the onion in half. Peel the onion.
- 3. Working close to the edge of the counter or worktable, make a series of horizontal slices through each onion half, working from the bottom up (depending on the size of the onion, you should be able to make three or four cuts).
- 4. Make a series of vertical cuts through the fattest part of the onion. DO NOT cut through the root end this is holding everything together to make the next step easier.
- 5. To finish dicing the onion, make a second series of vertical cuts starting at the stem end (where you made the first cut) and continuing back toward the root end (that is holding everything together). Stop cutting if the root end becomes too small to hold onto securely. Only cut back as far as you feel comfortable going!

Planks, Sticks, Dice



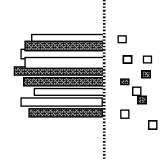
Planks:

Cut vegetable lengthwise into desired thickness



Sticks:

Stack slices and cut again lengthwise into the desired thickness, yielding sticks.



Dice:

Lay sticks in a bundle cut crosswise into the desired thickness; this will yield dice.

BASIC KNIFE CUTS

Small Dice	(1/4" x 1/4" x1/4")	Julienne	(1/8" x 1/8" x 1 or 2")	
Medium Dice	(1/3" x 1/3" x 1/3")	Bâtonnet	(1/4" x 1/4" x 2 or 2- 1/2")	
Large Dice	(3/4" x 3/4" x 3/4")			

CULINARY LAB EXPERIENCE

Set up a workstation:

- Cutting board anchored to prevent it from sliding
- Refuse container
- Container for potatoes (with water)
- Onions
- Carrots
- Additional vegetables and fruits (per team assignment)
- Chef's knife
- Vegetable peeler

Each participant will cut:

- Potato 1 each, large dice
- Sweet Potato 1 each, large dice
- Onion 1 each, small dice
- Carrot 1 each, various cuts (as assigned)
- Bell pepper, sweet 1 each, various cuts (as assigned)
- Scallions, bias cut

Additionally, each team will cut:

	Vegetable	Small fruits	Large fruit
Team 1	Broccoli	Oranges	Watermelon
		wedges	large dice & small dice
Team 2	Cauliflower	Apples	Cantaloupe
		slices	large dice & small dice
Team 3	Butternut squash/	Kiwi	Honeydew
	winter squash	sliced	large dice & small dice
Team 4	Zucchini/summer	Strawberries	Pineapple
	squash	small dice	large dice & small dice
Team 5	Broccoli	Oranges	Watermelon
		slices	large dice & small dice
Team 6	Cauliflower	Apples	Cantaloupe
		small dice	large dice & small dice
Team 7	Butternut squash/	Kiwi	Honeydew
	winter squash	small dice	large dice & small dice
Team 8	Zucchini /summer	Strawberries	Pineapple
	squash	small dice	large dice & small dice

From cut produce, we will prepare: fruit salad, fruit salsa, roasted potatoes with various seasonings

SEASONAL FRUIT SALSA	YIELD: 5 CUPS SERVINGS: 20 EACH	
	One portion provides: 1/4 cup fruit	

INGREDIENTS	20 Servings	DIRECTIONS
Fruit, small diced (see chart)	varies	CCP: No bare-hand contact with ready-to-eat
Onion, diced (see chart)	1 cup	food.
Jalapeno pepper, finely diced	2 ounces	1. Gently mix all ingredients.
Vegetable, diced (see chart)	1 pound	2. Cover and refrigerate for 2 hours to allow the
Herb, chopped (see chart)	½ cup	flavors to blend.
Acid (see chart)	½ cup	CCP : Hold and serve at 41°F or lower.

YIELD: 5 CUPS

RECIPE NOTES: Seasonal Fruit Salsa

	Spring		Summer		Fall		Winter	
Fruit	Strawberries	8 ounces	Watermelon	20 ounces	Apples	12 ounces	Mandarin	15
	Pineapple, crushed	20	Cantaloupe	8 ounces	Peaches	12 ounces	oranges	ounces
		ounces					Kiwi	14
								ounces
Onion	Red onion		Sweet onion		Sweet onio	n	Red onion	
Vegetable	e Red pepper		Cucumber, peeled		Red pepper		Cucumber, peeled	
Herb	Cilantro		Mint		Parsley		Mint	
Acid	Lime juice		Lime juice		Apple cider vinegar		Lemon juice	

Nutrients vary depending on the ingredients used.

Source: Culinary Nutrition Associates LLC

The outcome, allergen information, and nutrient data may vary depending on your location's specific ingredients and equipment.

SEASONAL FRUIT SALAD	Crediting: ½ cup (4 ounce spoodle or No. 8 Scoop)	
	One portion provides: ½ cup fruit	

INGREDIENTS	20 SERVINGS	DIRECTIONS
Seasonal fruit, large dice	1 seasonal selection	CCP : No bare-hand contact with ready-to-eat food.
	(see chart)	1. Combine the fruit.
Honey Mint Citrus Dressing (attached)	1 cup	2. Toss with the Honey Mint Citrus Dressing.
		3. Chill for service.
		CCP : Hold and serve at 41°F or lower.

Spring - berry	delight	Summer - melon salad		Fall - Waldorf style		Winter - tropical fruit	
Strawberries 1½ pounds V		Watermelon	3 pounds	Apples	1 ½ pounds	Pineapple,	40 ounces
						canned	
Banana	2 pounds	Cantaloupe	2 pounds	Grapes	1 pound	Mango	1 ½ pounds
Blueberries	12 ounces	Honeydew	2 pounds	Mixed fruit, canned	30 ounces	Kiwi	1 pound

Nutrients vary depending on the ingredients used.

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HONEY MINT CITRUS	SERVING SIZE: 2 TABLESPOONS	
Dressing	One portion provides: Does Not Credit	

INGREDIENTS	1 GALLON	Test Portion –1 cup
	MEASURE	Measure
Orange juice, 100% juice	3 quarts	³ / ₄ cup
Lemon juice, 100% juice	1 quart	1/4 cup
Honey	½ cup	1 ½ teaspoons
Salt, kosher	4 teaspoons	1/4 teaspoon
Mint, fresh, finely chopped	2 cups	2 tablespoons

DIRECTIONS

CCP: No bare-hand contact with ready-to-eat food.

- 1. Mix the orange juice, lemon juice, honey, and salt with an immersion blender, food processor or blender, or wire whisk.
- 2. Add the chopped mint.

CCP: Hold and serve at 41°F or lower.

Nutrients Per Serving										
Calories	15	Cholesterol (mg)	0	Dietary Fiber (g)	0	Vitamin D (mcg)	0	Potassium (mg)	60	
Total Fat (g)	0	Sodium (mg)	60	Added Sugars (g)	1	Iron (mg)	0.2	Vitamin A-RAE (mcg)	10.47	
Saturated Fat (g)	0	Total Carbohydrate (g)	4	Protein (g)	0	Calcium (mg)	10	Vitamin C (mg)	15	

Source: Adapted from Culinary Nutrition Associates LLC

The outcome, allergen information, and nutrient data may vary depending on specific ingredients and equipment.

Day 1

ROASTED POTATOES WITH SEASONINGS

SERVING SIZE: 1/2 CUP

ONE PORTION PROVIDES: 1/2 CUP STARCHY

VEGETABLE

INGREDIENTS 50 SERVINGS				10 s	ERVINGS			DIRECTIONS					
Potatoes, russet 12 pounds				2 pounds, 8 ounces				1. Preheat the oven to 375°F.					
Salt, kosher		1 tablespoor	1	1 te	aspoon			2. Scru	b the p	otatoe	s (peel	them if desire	ed)
Oil, olive, or cand	ola	½ cup	-	1 ta	blespoon, 1 poons	1/2		 Scrub the potatoes (peel them if desired) and cut them into large dice or wedges. Toss the potatoes with salt, oil, and the seasoning blend of choice. Arrange the potatoes in a single layer on parchment-lined sheet pans. Roast in the oven for about 40 minutes or until browned and tender. CCP: Cook until internal temperature reaches 135°F. CCP: Hold for hot service at 135°F or higher. 			s. e e nt- s or hes		
MUTDIENTS DED CEDVIN	IC (VA	THE CONTROL OF A C						CCP: H	old for r	iot serv	rice at	135 F or night	er.
	110	Cholesterol (mg)		0	Dietary Fiber	(a)	1	Vitamin I	D (mca)	0	Potas	sium (mg)	450
	2.5	Sodium (mg)		120	Added Sugars		0	Iron (mg		0.9		in A-RAE (mcg)	0.05
Saturated Fat (g)	0	Total Carbohydrate (g)	20	Protein (g)	- (9)	2	Calcium		10		in C (mg)	6
Ranch – for 50 servi	ngs	,		osema	ry - for 50 serv	ings		BBQ – for 50 servings					
Garlic, granulated Onion, granulated Dill weed, dried Salt, kosher Black pepper, ground 2 tablespoons 2 tablespoons 1 ½ teaspoons		Ga O Sa	Garlic, granulated 2 Onion, granulated 2 Salt, kosher 2			lespoons lespoons spoons easpoons		Smoked paprika 2 tablesp Garlic, granulated 2 tablesp Onion, granulated 2 tablesp		2 tablespoons 2 tablespoons 2 tablespoons 2 tablespoons 2 teaspoons			

Source: Adapted from Culinary Nutrition Associates LLC

The outcome, allergen information, and nutrient data may vary depending on your location's specific ingredients and equipment.

CHILI-CINNAMON ROASTED SWEET POTATOES

SERVING SIZE: 1/2 CUP

ONE PORTION PROVIDES: ½ CUP RED/ORANGE VEGETABLE

		50 SERVINGS	10	SERVINGS	DIR	ECTION	S			
		15 pounds, 8	3 p	oounds	1. Preheat the oven to 400°F.					
		ounces			2. Scrub the potatoes (peel them if desired) and cut					t them
						into la	rge dice, wedge	s, or sti	cks.	
		1 tablespoon	3/4	teaspoon	3.	Combi	ne the seasonin	gs: chil	i powder through tl	he salt.
und		2 teaspoons	1/2	teaspoon						
anula	ated	1 tablespoon	1/2	teaspoon						
roun	d	1 teaspoon	1/4	teaspoon						
ed		½ teaspoon	1/8	3 teaspoon	ı					
		½ teaspoon	1/8	3 teaspoon						
nola		1 cup	3 t	ablespoons	 4. Drizzle the sweet potatoes with the oil, sprinkle with the seasoning mixture, and toss well to coat. 5. Place the potatoes in a single layer on parchment-lined sheet trays. 6. Bake for 12 to 15 minutes until tender and browned in spots. CCP: Cook until internal temperature reaches 135°F or above. 					
		· J,	0	Dietary Fiber (g)		3	Vitamin D (mcg)	0		30
		<u> </u>					` ' ' '		, ,,	824.47 17
	und anula roun ed	und anulated round ed nola 120 Cholestero 4.5 Sodium (m	15 pounds, 8 ounces 1 tablespoon 2 teaspoons anulated 1 tablespoon round 1 teaspoon 2 teaspoon 1/2 teaspoon 1/2 teaspoon 1 toup 1 toup	15 pounds, 8 ounces 1 tablespoon 3/4 2 teaspoons 1/2 2 nound 1 teaspoon 1/3 2 teaspoon 1/8 1/2 teaspoon 1/8 1/2 teaspoon 1/8 1/2 teaspoon 3/4 1/2 teaspoon 1/8 1/2 teaspoon 3/4 1/2 teaspoon 1/8 1/2 teaspoon 5/8	15 pounds, 8 ounces 1 tablespoon 3/4 teaspoon 1 tablespoon 1/2 teaspoon 1 tablespoon 1/2 teaspoon 1 teaspoon 1/4 teaspoon 1 teaspoon 1/8 teaspoon 1 teaspoon 1/8 teaspoon 1 tablespoon 1/8 teaspoon 1 teaspoon 1/8 teaspoon 1 tablespoon 1/8 teaspoon 1 tables	15 pounds, 8 ounces 1 tablespoon 1 tablespoon 1 tablespoon 1 tablespoon 1 tablespoon 2 teaspoon 2 teaspoon 3 teaspoon 1 teaspoon	15 pounds, 8 ounces 1 tablespoon 3/4 teaspoon 2 teaspoons 1/2 teaspoon 3 teaspoon 1/2 teaspoon 3 teaspoon 1/8 teaspoon 3 tablespoons 3 tablespoons 4 Drizzle 4 the sea 5 Place t 5 sheet t 6 Bake fo 5 spots. CCP: Cook above. CCP: Hold 1 top 0 Dietary Fiber (g) 3 4 Sodium (mg) 0 Dietary Fiber (g) 0	15 pounds, 8 ounces 1 tablespoon 3/4 teaspoon anulated 1 tablespoon 1/2 teaspoon round 1 teaspoon 1/8 teaspoon ed 1/2 teaspoon 1/8 teaspoon rola 1 cup 3 tablespoons 1 cup 3 tablespoons CCP: Cook until internal to above. CCP: Hold for hot service	15 pounds, 8 ounces 1 tablespoon 3/4 teaspoon 2 teaspoons 1/2 teaspoon 3/4 teaspoon 1/2 teaspoon 3/5 teaspoon 1/8 teaspoon 3/6 teaspoon 1/8 teaspoon 3/7 teaspoon 1/8 teaspoon 3/8 teaspoon 1/8 teaspoon 3/9 teaspoon 1/8 teaspoon 4. Drizzle the sweet potatoes wi the seasoning mixture, and to 5. Place the potatoes in a single sheet trays. 6. Bake for 12 to 15 minutes unit spots. CCP: Cook until internal temperal above. CCP: Hold for hot service at 135° 120 Cholesterol (mg) 0 Dietary Fiber (g) 3 Vitamin D (mcg) 0 0 1 ron (mg) 0.6	15 pounds, 8 ounces 1 tablespoon 2 teaspoons 2 teaspoon 2 teaspoon 2 teaspoon 3 tablespoon 3 tablespoon 3 tablespoon 2 teaspoon 3 tablespoon 3 tablespoon 4 teaspoon 2 teaspoon 3 tablespoon 4 teaspoon 4 teaspoon 5 teaspoon 6 total 6 total 7 teaspoon 7 teaspoon 7 teaspoon 7 teaspoon 8 teaspoon 9 t

Source: Adapted from Culinary Nutrition Associates LLC

The outcome, allergen information, and nutrient data may vary depending on your location's specific ingredients and equipment.

BAKED CHICKEN
D RUMSTICK

Serving Size: K-8: 1 drumstick 9-12: 2 drumsticks

1 DRUMSTICK PROVIDES: 1.5 OZ. EQ M/MA

INGREDIENTS	50 SERVINGS	25 SERVINGS	DIRECTIONS
Chicken, drumsticks	11 pounds	5 pounds	1. If needed, thaw the chicken under refrigeration
(One 3.7 oz. drumstick = 1.5 oz. cooked	10 ounces	14 ounces	overnight.
chicken meat)			2. Toss the chicken with a seasoning blend.
CN Labeled to provide 1.5 oz. eq m/ma			3. Line the chicken in a single layer on parchment-
			lined sheet trays.
			4. Bake until internal temperature reaches 165°F:
			Conventional oven: 400°F for 45-55 minutes.
			Convection oven: 350°F for 30-35 minutes.
			CCP : Heat to 165°F for <1 second (instantaneous).
			CCP : Hold for hot service at 135°F or higher.

Ranch – for 50 servings			Rosemary - for 50 servings				BBQ – for 50 servings					
Garlic, granulated	2	2 tablespoons	Ros	emary, d	lried	3 tables	oons		Cumin, ground	l	2 tablespoons	
Onion, granulated	2	2 tablespoons	Garlic,		ulated	2 tablespoons		Smoked paprik	ка	2 tablespoons		
Dill weed, dried	2	2 tablespoons	Oni	on, gran	ulated	2 tables	ooons		Garlic, granula	ted	2 tablespoons	
Salt, kosher	2	2 teaspoons	Salt	Salt, kosher		2 teaspoons		Onion, granulated		2 tablespoons		
Black pepper, groun	r, ground 1 ½ teaspoons Black pepper, ground 1 ½ teaspo		spoons		Salt, kosher		2 teaspoons					
								Black pepper,	ground	1 ½ teaspoons		
NUTRIENTS PER S	ERVIN	g (without seasonin	۷G)									
Calories	100	Cholesterol (mg)		75	Dietary Fil	ber (g)	0	Vita	amin D (mcg)	0.1	Potassium (mg)	130
Total Fat (g)	6	Sodium (mg)		60 Added Sug		Added Sugars (g)		Iror	n (mg)	0.5	Vitamin A-RAE (mcg)	6.66
Saturated Fat (g)	1.5	Total Carbohydrate (g)	0	Protein (g)			cium (mg)	10	Vitamin C (mg)	0

PRODUCT EVALUATION FOR CULINARY BASICS

Participants evaluate each food product as part of the tasting in this culinary laboratory. For each food product (row) and each evaluation category (column), circle either **A** (acceptable) or **NA** (not acceptable).

Food Product	Appearance	Taste	Texture	Eating Quality	Comments
Seasonal Fruit Salad	A or NA	A or NA	A or NA	A or NA	
Seasonal Fruit Salsa	A or NA	A or NA	A or NA	A or NA	
Roasted Potatoes with Seasonings	A or NA	A or NA	A or NA	A or NA	
Chili-Cinnamon Roasted Sweet Potatoes	A or NA	A or NA	A or NA	A or NA	
Baked Chicken Drumstick	A or NA	A or NA	A or NA	A or NA	

DAY TWO

COOKING VEGETABLES FOR GREATER APPEAL

Lesson-at-a-glance

Culinary demonstration	Vegetable cookery principles Purchase forms of vegetables Blanching Steaming Roasting Oven-roasted potatoes Sautéing and stir-frying Braising and stewing Glazing Seasonings	60 minutes
	DEMO: Blanched broccoli Roasted Brussels sprouts Roasted watermelon rind Steamed edamame Quick pickled cucumbers	
Hands-on	Blanched vegetables Steamed vegetables Roasted vegetables Quick pickling	2 ½ hours
Evaluation and discussion		15 minutes
Clean-up		15 minutes

VEGETABLE COOKERY

Proper selection, purchasing, handling, and preparation of vegetables will enhance the taste, presentation, and nutritional value of vegetables.

- Purchase quality raw product
- · Cut only when ready to use
- Cuts should enhance natural shape
- Cook as quickly as possible
- Cook as close to service as possible
- · Cook small batches at a time
- Cook until tender

EFFECTS OF OVERCOOKING

- Color loss
- Texture (mushy)
- Vitamin loss

Vegetables are packed with nutrients for children.

- 1. Most vegetables are naturally low in fat and calories. None have cholesterol. (Sauces or seasonings may add fat, calories, or cholesterol).
- 2. Vegetables are important sources of many nutrients, including potassium, dietary fiber, folate (folic acid), vitamin A, vitamin E, and vitamin C.
- 3. Diets rich in potassium may help to maintain healthy blood pressure. Vegetable sources of potassium include sweet potatoes, white potatoes, white beans, tomato products (paste, sauce, and juice), beet greens, soybeans, lima beans, winter squash, spinach, lentils, kidney beans, and split peas.
- 4. As part of a healthy diet, dietary fiber from vegetables helps reduce blood cholesterol levels and may lower the risk of heart disease. Fiber-containing foods such as vegetables help provide a feeling of fullness with fewer calories.

Keeping the Nutrients

The way a vegetable is prepared can affect its nutrient content. Heat can destroy some nutrients, and some dissolve in water. The culinary techniques described in this lesson are based on principles designed to keep nutrients in vegetables.

Remember to keep the nutrients in vegetables:

- Keep the vegetables in big pieces.
- Cook in just a little water (if any).
- Cook only a short time.

Additional Information

Green vegetables:

- Use plenty of water; vegetables should be covered with water. Exception to the rule: tender spinach can be cooked using very little water in a covered pot.
- Do not cover during cooking.
- Acid (such as vinegar or citrus juice) destroys color.

White vegetables:

- Acid intensifies the color of white vegetables.
- Alkaline (baking soda) makes white vegetables turn yellow.

Red/orange vegetables:

- Do not peel beets before cooking.
- Acid intensifies the red color.
- Beets can also be baked in their skins and then peeled.
- Acid will brighten the color of carrots slightly.
- Most orange vegetables are good for glazing.

PURCHASING FORMS OF VEGETABLES

Form	Advantages	Disadvantages	Examples
Fresh vegetables	Taste goodGood textureProductacceptability	Limited shelf lifeQuality variesRequirespreparation	BroccoliCarrotsGreen beans
Frozen vegetables can be cooked by most of the methods used for fresh vegetables.	 Year-round availability Less waste Less labor Practical for some types of vegetables 	 Loss of texture due to freezing Quality variance between producers Flavor loss 	PeasCornLima beans
Canned vegetables: reheat them in the liquid from the can, adjust seasonings. Dry vegetables reconstituted in a liquid.	 Shelf life Practical for some vegetables Shelf life Convenient 	 Poor color Mushy Poor flavor Takes time to reconstitute 	 Beet Beans (kidney, pinto, black) Dry beans Freeze-dried peppers

BLANCHING VEGETABLES

Blanching means dipping food into boiling water for a very short time, only a minute or two. This method briefly and partially cooks food.

Blanching is used to:

- Prepare vegetables for further cooking (for example, broccoli)
- Remove strong or bitter flavors (for example, kale)
- Soften firm foods (for example, carrots)
- Set colors of vegetables (for example, snow peas)
- Loosen skins for peeling (for example, ripe tomatoes)

Mise en place

- Prepare the vegetable: wash, peel, trim, cut
- · Liquid: usually water
- Equipment: steam-jacketed kettle or large stock pot
- Ice bath or freezer

Quick steps for Blanching

- 1. Bring a large pot of water to a boil.
- 2. Immerse vegetables in boiling water for 30 seconds to 1 minute, depending on ripeness or firmness desired.
- 3. Remove the vegetables from the boiling water.
- 4. Immediately immerse in ice water to chill.

CCP: Cool to 41°F or lower within 4 hours.

Tips

- Use plenty of water. This prevents the water from cooling down when you add the vegetables, so they cook quickly and evenly.
- Test for doneness by removing a vegetable with a pair of tongs. Rinse under cold water, and take a bite. It should snap beneath your teeth but have lost some of its raw crunch.
- Drain immediately and then quick-chill (a technique known as "shocking") by immersing in an ice bath or rinsing with ice-cold water. Shocking stops cooking and sets the color so the vegetables remain vibrant.
- Once chilled, spread the vegetables out on a tray to dry.

STEAMING

Nearly all vegetables can be cooked by steaming and this method is frequently used because it is easy and economical. This basic cooking method often requires additional steps to make the product ready to serve. This may include adding sauces, seasonings, and flavorings. Steaming is especially good for vegetables that easily become broken or mushy when simmered.

Examples

Broccoli, carrots, peas, cauliflower, beans, snow peas

Mise en place

- Prepare the vegetable: wash, peel, trim, cut
- Liquid: usually water
- Equipment: steamer, steam-jacketed kettle, or large stock pot
- Optional components: aromatics: spices, herbs, citrus zest, sauces

Quick steps for steaming

Steaming Vegetables in a Steamer

- 1. Place approximately 25 ½ cup servings of the fresh or frozen vegetable in a perforated 12 X 20 X 2-inch pan. Do not place a larger number of vegetables in the pan to allow room for the steam to circulate around them. Don't add liquid.
- 2. Steam uncovered at 5 pounds pressure for a compartment steamer. Follow the manufacturer's directions for steamers operating at other pressures or when using convection steamers or combination ovens.
- 3. Season with herbs and spices. Limit salt to 1 teaspoon for $50 \frac{1}{2}$ cup servings.
- 4. Serve the hot vegetable at once.

Steaming Vegetables in an Oven

- 1. Place approximately 50 ½ cup servings of the fresh or frozen vegetables in a perforated 12 X 20 X 2-inch counter pan. Then, place the perforated pan in a 4-inch-deep counter pan that contains 2 cups of water. Do not place a larger number of vegetables in the pan to allow room for the steam to circulate around them.
- 2. Cover both pans tightly with foil. This arrangement of pans creates a steamer effect in a perforated pan.
- 3. Place the covered pans in an oven at 350° F for approximately 20 minutes. Cook the vegetables until fork tender, varying the time depending on the vegetables.
- 4. Drain the excess liquid from the cooked vegetable.
- 5. Season with herbs and spices. Do not add butter or margarine. Limit salt to 1 teaspoon for 50 servings. Serve the hot vegetable at once.

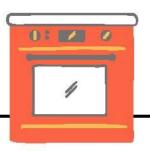
How to

Steam Vegetables



Steamer

- 1.) Place 25, ½ cup serving of the fresh or frozen veggies in a perforated 12x20x2-inch pan.
- 2.) Steam uncovered.



Oven

- 1.) Place 50, ½ cup servings of the fresh or frozen veggies in a perforated 12x20x2-inch counter pan. Place the pan in a 4-inch deep counter pan that contains 1 quart of water.
- 2.) Cover both pans tightly with foil and cook at 350° F for approximately 20 minutes.



After cooking

- 3.) Season with herbs, spices, citrus zest, or light sauces. Optional salt no more than $\frac{1}{2}$ teaspoon per 25 portions.
- 4.) Serve the hot vegetables at once.



Tips

- Steamed vegetables are best when batch cooked.
- If holding is necessary, do so in the warmer, not on the steamtable.



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ROASTING/BAKING

Roasting vegetables in the oven gives them a caramelized exterior and flavor while keeping the inside moist and tender.

Examples

Asparagus Mushrooms Summer squash
Beets Onions Sweet potatoes
Brussels sprouts Parsnips Tomatoes
Carrots Peppers Turnips
Corn Potatoes Zucchini

Eggplant Rutabagas

Mise en place

- Prepare the vegetable: wash, peel, trim, cut
- Equipment: oven
- Optional components: marinade, seasonings, or aromatics

Quick steps for roasting and baking

- 1. Preheat the oven to 375°F- 425°F. The longer the vegetable needs to cook, the lower the oven temperature. This will ensure that the vegetable is thoroughly cooked without the exterior burning.
- 2. Cut vegetables into uniform shapes and sizes.
- 3. Toss vegetables with oil—season with pepper, garlic, spices, or herbs. Use no more than 1 teaspoon of salt per 50 portions.
- 4. Place vegetables in a single layer on a sheet pan. Do not crowd the vegetables, as this will cause them to steam.
- 5. Bake until vegetables are tender.

Roast Vegetables

Roasting is a dry heat cooking method that is popular for vegetables. Nearly any vegetable can be roasted, and doing so will create a caramelized exterior with a tender interior.



Step 1: Preheat the oven to 375 °- 425 °F.

The longer the vegetable needs to cook, the lower the oven temperature. This will ensure that the vegetable is thoroughly cooked without the exterior burning.

Step 2: Cut vegetables into uniform shape and size.

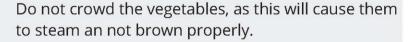




Step 3: Toss vegetables in oil. Season with pepper, garlic, spices, or herbs.

Use no more than 1 teaspoon of salt per 50 portions.

Step 4: Place vegetables in a single layer on a sheet pan.







Step 5: Bake until vegetables are tender.

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OVEN ROASTED POTATO FRIES

Steps to better oven-baked potatoes:

- 1. Preheat the oven to 425°F 450°F.
- 2. Remove only the number of French fries to be used within 1 hour.
- 3. Place a single layer of French fries on a sheet pan. For best results, use $2\frac{1}{2}$ pounds per full sheet pan. Bake according to package instructions. Turn once for uniform cooking.
- 4. Season fries. Limit the salt to 1 teaspoon for 50 servings of fries. This would add 45 mg of sodium. Try other seasonings instead of salt.

Seasoning variations	Seasonings	Amount needed per 10
		pounds of potatoes
Garlic and Herb	Oregano leaves	1 ½ tablespoons
	Paprika	1 ½ tablespoons
	Thyme leaves	1 ½ tablespoons
	Garlic, granulated	1 tablespoon
	Granulated onion	2 teaspoons
Southwest	Paprika	1 tablespoon
	Granulated onion	1 ½ tablespoons
	Garlic, granulated	1 ½ tablespoons
	Adobo seasoning	1 teaspoon
	Black pepper	1 teaspoon
Buffalo	Granulated onion	1 tablespoon
	Garlic, granulated	1 ½ tablespoons
	Chili pepper	1 ½ tablespoons
	Red pepper	1 teaspoon
	Paprika	1 teaspoon
Parmesan-Rosemary	Rosemary, crushed	2 tablespoons
	Garlic, granulated	1 ½ tablespoons
	Parmesan cheese	½ cup
Barbecue	Cumin	2 tablespoons
	Smoked paprika	2 tablespoons
	Garlic, granulated	2 tablespoons
	Granulated onion	2 tablespoons
	Black pepper	1 ½ teaspoon
Ranch	Garlic, granulated	2 tablespoons
	Granulated onion	2 tablespoons
	Dill weed	2 tablespoons
	Black pepper	1 ½ teaspoon

QUICK PICKLES

Quick pickles, also known as refrigerator pickles, are simply vegetables or fruits that are pickled in a vinegar, water, salt, and sugar solution and stored in the refrigerator. Quick pickles don't develop the deep flavor that fermented pickles do, but they only require a few hours in the brine before they can be enjoyed. Quick pickles are a lower-sodium version of a traditional pickle. They offer a sweet-sour, flavor-packed addition to a sandwich or salad bar. Almost any vegetable can be quickly pickled.

Basic Quick Pickle Recipe (1 quart)

1 quart of brine will pickle about 2 pounds of vegetables.

INGREDIENTS	AMOUNTS	DIRECTIONS
Vinegar	2 cups	1. In a medium pot over high heat,
Rice wine vinegar, red or		bring vinegar, water, sugar, salt, and
white wine vinegar, apple		seasonings to a boil, stirring
cider vinegar		occasionally. Reduce heat to
Water	2 cups	medium-low and simmer for 10
Sugar	2	minutes.
	tablespoons	2. Place the vegetable in a heatproof
Salt, kosher	1 tablespoon	container or jar. Pour the hot brining
Seasonings	1 tablespoon	liquid over the vegetables. Cover
		and chill for at least 2 hours before
		serving.

Flavoring Quick Pickles

Fresh herbs	dill, thyme, oregano, and rosemary hold up well
Dried herbs	thyme, dill, rosemary, oregano, or marjoram
Garlic cloves	smashed for mild garlic flavor, or sliced for stronger garlic flavor
Fresh ginger	peeled and thinly sliced
Whole spices	mustard seed, coriander, peppercorns, red pepper flakes
Ground spices	turmeric or smoked paprika are great for both color and flavor

Try these vegetables for pickling:

Asparagus	Cucumbers	Snap peas
Beets	Eggplant	Summer squash
Brussels sprouts	Green beans	Turnips
Carrots	Onions	Zucchini
Corn	Peppers	Mushrooms

Try these fruits for pickling:

Blueberries Grapes Plums
Strawberries Rhubarb Peaches
Cherries Watermelon rind

Guide to **Quick Pickling**

Quick pickles are a lower-sodium version of a traditional pickle. While they don't develop the deep flavor of fermented pickles, they offer a sweet-sour, flavorpacked addition to sandwiches, salads, and bowls.



1 quart of brine will pickle about 2 pounds of vegetables

Directions

- 1. Bring vinegar, water, sugar, salt, and seasonings to a boil in a medium pot over high heat, stirring occasionally.
- 2. Place vegetables in a heatproof container or jar. Pour hot brining liquid over vegetable. Cover and chill at least 2 hours before serving.

Tips

- Chill overnight
- Increase sugar for sweeter flavor
- Add chili flakes for spicy flavor



Suggested Vegetables

- Carrots
 Cauliflower
- Red onion
 Jalapeno
- Zucchini Green Beans

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ROASTED BRUSSELS SPROUTS

SERVING SIZE: ½ CUP

ONE PORTION PROVIDES: ½ CUP OTHER VEGETABLE

INGREDIENTS	50 SERVINGS	10 SERVINGS	DIRECTIONS
Brussels sprouts, fresh halved or quartered	12 pounds	2 pounds, 8 ounces	 Preheat the oven to 400°F. Trim the Brussels sprouts by cutting off the brown ends and removing the yellow outer leaves.
Oil, olive Salt, kosher Black pepper, ground	1 cup 1 tablespoon 2 ½ teaspoons	3 tablespoons 3/4 teaspoon 1/2 teaspoon	3. Toss the Brussels sprouts in a bowl with the olive oil, salt, and pepper. Spread them on a parchment-lined sheet pan in an even layer (do not overcrowd) and roast for 25 to 35 minutes until crisp outside and tender on the inside. Shake the pan from time to time to brown the sprouts evenly.
Balsamic vinegar, optional Honey, optional	¼ cup ¼ cup	1 tablespoon 1 tablespoon	 4. Remove the Brussels sprouts from the oven. Toss with the balsamic vinegar and honey, if desired. CCP: Cook until internal temperature reaches 135°F or above. CCP: Hold for hot service at 135°F or higher.

NOTE: This dish works wonderfully with fresh Brussels sprouts, but frozen is a good substitute in large food-service facilities.

SERVING NOTES:

Thai sweet chili sauce may be used instead of balsamic vinegar and honey.

NUTRIENTS PER SEF	RVING								
Calories	90	Cholesterol (mg)	0	Dietary Fiber (g)	3	Vitamin D (mcg)	0	Potassium (mg)	380
Total Fat (g)	5	Sodium (mg)	120	Added Sugars (g)	1	Iron (mg)	1.5	Vitamin A-RAE (mcg)	92.02
Saturated Fat (g)	1	Total Carbohydrate (g)	10	Protein (g)	3	Calcium (mg)	40	Vitamin C (mg)	74

Source: Adapted from Culinary Nutrition Associates LLC

ROASTED WATERMELON RIND

SERVING SIZE: ½ CUP

ONE PORTION PROVIDES: ½ CUP FRUIT

INGREDIENTS	50 SERVINGS	10 SERVINGS	DIRECTIONS
Watermelon rind		10 cups	1. Preheat the oven to 400°F.
Oil, canola		¼ cup	2. In a large bowl, toss the watermelon rind with the
Salt, kosher		½ teaspoon	oil, salt, pepper, granulated garlic, rosemary, and
Pepper, black, ground		¼ teaspoon	thyme.
Garlic, granulated		¼ teaspoon	3. Spread the rind in a single layer onto a parchment-
Rosemary, dried		2 teaspoons	lined sheet pan. Place in the oven and roast for 1
Thyme, dried		2 teaspoons	hour, stirring every 15 minutes until the rind is bite-
Parmesan cheese, grated		¼ cup	 tender (not mushy) and browned. 4. Place the roasted rind into a steam table pan and stir in the cheese. CCP: Cook until internal temperature reaches 135°F or above. CCP: Hold for hot service at 135°F or higher.

SERVING NOTES:

NUTRIENTS PER SER	RVING			
Calories	Cholesterol (mg)	Dietary Fiber (g)	Vitamin D (mcg)	Potassium (mg)
Total Fat (g)	Sodium (mg)	Added Sugars (g)	Iron (mg)	Vitamin A-RAE (mcg)
Saturated Fat (g)	Total Carbohydrate (g)	Protein (g)	Calcium (mg)	Vitamin C (mg)

Source: Adapted from the National Watermelon Promotion Board

STEAMED EDAMAME - IN POD	SERVING SIZE: ½ CUP	
	ONE PORTION PROVIDES: ½ CUP BEANS, PEAS, AND LENTILS	

	50 SERVINGS	10 SERVINGS	DIRECTIONS
Edamame, frozen in pod	15 pounds	3 pounds	 STEAMER: Arrange an entire bag of frozen edamame in a half-size hotel pan. Steam for 7 to 8 minutes. STEAM JACKETED KETTLE: Bring 5 quarts of water to boil on high in a 7-quart pot. Add the entire bag of frozen edamame into the boiling water. Quickly return to boil, cook 5 minutes longer. Do not cover. Drain and serve.
Oil, canola	½ cup	2 tablespoons	3. Combine oil, salt, pepper and lemon zest. Toss cooked
Salt, kosher	1 teaspoon	¼ teaspoon	edamame with the seasoning mixture.
Black pepper, ground	½ teaspoon	¼ teaspoon	
Lemon zest	¼ cup	1 tablespoon	
Smoked paprika, optional	1 teaspoon	½ teaspoon	 Garnish with smoked paprika. CCP: Cook until internal temperature reaches 135°F or above. CCP: Hold for hot service at 135°F or higher.

RECIPE NOTES:

NUTRIENTS PER SER	RVING								
Calories	180	Cholesterol (mg)	0	Dietary Fiber (g)	7	Vitamin D (mcg)	0	Potassium (mg)	600
Total Fat (g)	10	Sodium (mg)	95	Added Sugars (g)	0	Iron (mg)	3.6	Vitamin A-RAE (mcg)	1.15
Saturated Fat (g)	0	Total Carbohydrate (g)	20	Protein (g)	16	Calcium (mg)	90	Vitamin C (mg)	0.6

QUICK PICKLED CUKES	SERVING SIZE: ¼ CUP	
	ONE PORTION PROVIDES: ¼ CUP OTHER VEGETABLE	

INGREDIENTS	50 SERVINGS	10servings	DIRECTIONS
Cucumbers, thinly sliced	6 ½ pounds	1 ¼ pounds	1. Place the cucumbers in a bowl or container.
Vinegar, cider	4 cups	1 cup	2. Combine the vinegar, water, sugar, and salt in a
Water	4 cups	1 cup	saucepan. Bring to a boil and stir until the sugar is
Sugar, white granulated	¼ cup	1 tablespoon	dissolved.
Salt, kosher	¼ cup	1 tablespoon	3. Pour the hot liquid over the cucumbers.4. Refrigerate for at least 3 hours before serving.CCP: Hold and serve at 41°F or lower.

SERVING NOTES:

Add ½ teaspoon red chili flakes for sweet and spicy cucumbers.

Nutrients Per Serving									
Calories	15	Cholesterol (mg)	0	Dietary Fiber (g)	0	Vitamin D (mcg)	0	Potassium (mg)	100
Total Fat (g)	0	Sodium (mg)	460	Added Sugars (g)	1	Iron (mg)	0.2	Vitamin A-RAE (mcg)	3
Saturated Fat (g)	0	Total Carbohydrate (g)	3	Protein (g)	0	Calcium (mg)	10	Vitamin C (mg)	2

Source: Samantha Cowens-Gasbarro

COOKING VEGETABLES FOR GREATER APPEAL TEAM ASSIGNMENTS

	Vegetable	Recipe 1 (Cold Vegetable Salad)	Recipe 2 (Roast)	Recipe 3 (Steam)	Quick Pickle
Team 1	Broccoli	Broccoli Salad (using blanched broccoli)	Ranch-Roasted Broccoli	Lemon Zest Broccoli	Dilly Cukes
Team 2	Cauliflower	Cauliflower Salad	Roasted Cauliflower with Turmeric	Buffalo Cauliflower Bites	Banh Mi Pickled Veggies (see Bahn Mi Vietnamese Sandwich recipe)
Team 3	Carrots	Moroccan Carrot Salad	Roasted Carrot Fries	Honey Carrots Coins	Pickled Spicy Carrots
Team 4	Butternut squash	Butternut Squash Parfait	Roasted Butternut Squash	Mashed Butternut Squash	Giardiniera
Team 5	Summer squash	Zucchini Fries	Roasted Ratatouille	Zucchini Parmesan	Turmeric Zucchini
Team 6	Corn	Edamame and Corn Salad	Esquites	Corn Pudding	Pickled Jalapenos
Team 7	Green beans	Green beans with Bean Salad with Almonds (using blanched green beans)	Sesame-Roasted Green Beans	Pizza Green Beans	Dilly Green Beans
Team 8	Beans	BBQ Three Bean Salad	Roasted Chickpeas	Maple Sriracha Baked Beans	Pickled Watermelon Rind

These recipes were developed for training and have not been tested or standardized for production.

Day 2 / Team 1

BLANCHED BROCCOLI	SERVING SIZE: ½ CUP	
	ONE PORTION PROVIDES: ½ CUP DARK GREEN	
	VEGETABLE	

INGREDIENTS		50 Servings	10	SERVINGS	DIRECTIONS					
Broccoli florets		7 pounds	•	ound, 8 nces	 Use a steam kettle, tilting braising pan, or stockpot. Bring the water to a boil. Place the broccoli in the boiling wate 					_
Water, boiling					and cook for 2-3 minutes or just until the color of the					
Ice water bath									oath	
NUTRIENTS PER SE	RVING									
Calories	20	Cholesterol (mg)	0	Dietary Fiber (g	g)	1	Vitamin D (mcg)	0	Potassium (mg)	210
Total Fat (g)	0	Sodium (mg)	15	Added Sugars (g)	0	Iron (mg)	0.6	Vitamin A-RAE (mcg)	95.25
Saturated Fat (g)	0	Total Carbohydrate (g)	3	Protein (g)		2	Calcium (mg)	30	Vitamin C (mg)	59

BROCCOLI SALAD	SERVING SIZE: ½ CUP	
	One portion provides: 3/8 cup dark green vegetable and 1/8 cup fruit	

INGREDIENTS			50 SERVIN	GS	10 Servings	DIRECTIONS						
Broccoli florets,	blanc	hed	7 pounds		1 pound, 8	CCP: No bare-hand contact with ready-to-eat food.						
		ounces										
Onion, red, sma	II dice	d	1 mediur	n	2 ounces	1. Combine the broccoli, onions, and raisins in a large						
Raisins			1½ poun	ds	5 ounces	bowl.						
Mayonnaise			1 quart		¾ cup	2. Whisk the mayonnaise, vinegar, and sugar separately, then add to the broccoli mixture. Stir well to combine.				•		
Vinegar, cider			½ cup		2 tablespoons					bine.		
Sugar, white gra	nulat	ed	¼ cup		1 tablespoon	tablespoon CCP: Hold and serve at 41°F or lower.			ver.			
NUTRIENTS PER SE	RVING											
Calories	180	Cholestero	l (mg)	5	Dietary Fiber (g)	2	Vitamin D (mcg)	0	Potassium (mg)	320		
Total Fat (g)	13	Sodium (m	g)	135	Added Sugars (g)	1	Iron (mg)	0.8	Vitamin A-RAE (mcg)	98.08		
Saturated Fat (g)	2	Total Carbo	ohydrate (g)	15	Protein (g)	2	Calcium (mg)	40	Vitamin C (mg)	59		

Source: Adapted from *New School Cuisine Cookbook: Nutritious and Seasonal Recipes for School Cooks by School Cooks*, Vermont Agency of Education, School Nutrition Association of Vermont, USDA, Team Nutrition, and Vermont FEED. http://vtfeed.org/resource-library

RANCH-ROASTED BROCCOLI	SERVING SIZE: ½ CUP	
	ONE PORTION PROVIDES: ½ CUP DARK GREEN	
	VEGETABLE	

Ingredients	50 SERVINGS	10 SERVINGS	DIRECTIONS
Broccoli florets, fresh	8 ¾ pounds	1 ¾ pounds	1. Preheat the oven to 400°F.
Oil, olive, or canola	½ cup	1 ½ tablespoon	2. In batches, toss the ingredients in a large bowl until
Salt, kosher	1 tablespoon	½ teaspoon	combined.
Ranch Seasoning	4 tablespoons	1 tablespoon	 Spread the broccoli on sheet pans lined with sprayed parchment paper. Roast the broccoli for 15 to 20 minutes or until it is soft and golden brown. CCP: Cook until internal temperature reaches 135°F or above. CCP: Hold for hot service at 135°F or higher.

NOTE: This dish works wonderfully with farm-fresh broccoli, but frozen is a good substitute in large food-service facilities.

Nutrients Per Serving									
Calories	45	Cholesterol (mg)	0	Dietary Fiber (g)	2	Vitamin D (mcg)	0	Potassium (mg)	270
Total Fat (g)	2.5	Sodium (mg)	115	Added Sugars (g)	0	Iron (mg)	0.8	Vitamin A-RAE (mcg)	119.26
Saturated Fat (g)	0	Total Carbohydrate (g)	4	Protein (g)	2	Calcium (mg)	40	Vitamin C (mg)	76

LEMON ZEST BROCCOLI	SERVING SIZE: ½ CUP	
	ONE PORTION PROVIDES: ½ CUP DARK GREEN VEGETABLE	

INGREDIENTS			50 SERVINGS	10 SERVI	NGS	DIRECTIO	ONS					
Broccoli brunche	es		10 ½ pounds	2 pound	ls	1. Ren	1. Remove the broccoli crowns from the stems and chop.					
				2 ounce	S	2. Stea	2. Steam the broccoli in a steamer or a large pot with 2 inches of					
						water, covered, over high heat, just until bright green, 2-7						
						minutes, depending on the method used.						
						CCP : Cook until internal temperature reaches 135°F or above.						
						3. Drain thoroughly.						
Lemons, fresh 2 each			2 each	½ each	ach 4. Grate the outer yellow lemon skin with a zesting tool or on				the			
					small grating side of a cheese grater.							
Parmesan chees	e, gra	ted	3 ounces (¾	3 tables	poons	5. Mix the broccoli with the lemon zest, Parmesan cheese, salt,						
			cup)			pepper, and olive oil in hotel pans.						
Salt, kosher			1 tablespoon	½ teasp	oon	CCP: Ho	CCP : Hold for hot service at 135°F or higher.					
Black pepper			2 teaspoons	½ teasp	oon							
Oil, olive			¾ cup	3 tables	poons							
NUTRIENTS PER SEF	RVING											
Calories	50	Chol	esterol (mg)	0	Dietary Fil	ber (g)	1	Vitamin D (mcg)	0	Potassium (mg)	180	
Total Fat (g)	4	Sodi	um (mg)	140	140 Added Sugars (g)		0	Iron (mg)	0.5	Vitamin A-RAE (mcg)	83.29	
Saturated Fat (g)	1	Total	l Carbohydrate (g)	3	Protein (g)	2	Calcium (mg)	40	Vitamin C (mg)	49	

Source: Fresh From the Farm: The Massachusetts Farm to School Cookbook, http://www.massfarmtoschool.org/wp-content/uploads/2012/05/farm_to_school_cookbook.pdf

DILLY CUKES	SERVING SIZE: N/A USED AS GARNISH	
	DOES NOT CREDIT QUANTITIES USED AS GARNISH	

INGREDIENTS		50 SE	RVINGS	10 SERVINGS		DIREC	CTIONS				
Water		3 cup	os	½ cup, 2		1. [Bring the water,	llt, and sugar to a bo	il in a		
			tablespoons			9	small pot.				
Vinegar, apple ci	ider	3 cup	os	½ cup, 2							
				tablespoon	S						
Salt, kosher		2 tab	lespoons	1 teaspoon							
Sugar, white		5 tab	lespoons	1 tablespoo	n	n					
Cucumbers		10 cu	ıps	2 cups		2.	Place the cucum	bers and d	ill in a large bowl. Po	ur	
Dill, fresh or drie	ed	4 tab	lespoons	2 ½ teaspo	ons	t	the pickling liqui	d over the	vegetables. Marinat	e for	
							1-2 hours or refr	igerate for	up to 3 days.		
						ССР	: Hold and serve	at 41°F or	lower.		
NUTRIENTS PER SER	RVING				<u> </u>						
Calories	10	Cholesterol (mg)	0	Dietary Fiber (g)		0	Vitamin D (mcg)	0	Potassium (mg)	30	
Total Fat (g)	0	Sodium (mg)	190	Added Sugars (g)		1	Iron (mg)	0.1	Vitamin A-RAE (mcg)	1.27	
Saturated Fat (g)	0	Total Carbohydrate (g)	2	2 Protein (g)			Calcium (mg)	0	Vitamin C (mg)	0.62	

Source: Culinary Nutrition Associates LLC

BLANCHED CAULIFLOWER	SERVING SIZE: ½ CUP	
	ONE PORTION PROVIDES: ½ CUP OTHER	
	VEGETABLE	

INGREDIENTS			50 Servings	10 SE	RVINGS	Dı	RECTION	S					
Cauliflower flore	ets, fre	esh	7 pounds,	1 pou	ınd, 8	1.	Prepa	re the v	washed, cut caulifl	ower.			
			4 ounces	ounce	es								
Water, boiling						 Use a steam kettle, tilting braising pan, or stockpot to bring water to a boil. Place the cauliflower in the boiling water and cook for 2-3 minutes. To blanch small amounts of vegetables, place the vegetables in a colander and then set the whole colander in the boiling water. Immediately drain all hot water. 							
Ice bath						 4. Immerse the vegetables in an ice bath (water with ice), making sure all the vegetables are submerged. Leave for about 1 minute to stop the cooking process. 5. Drain the vegetables well and store them covered in the refrigerator until time for use. CCP: Hold at 41°F or lower until ready to use. 						_	
NUTRIENTS PER SER	RVING					•							
Calories	15	Chol	lesterol (mg)	0 Dietary Fiber (g) 1 Vitamin D (mcg) 0 Potassium (mg)						200			
Total Fat (g)	0	Sodi	um (mg)	20	Added Si	ugars	(g)	0	Iron (mg)	0.3	Vitamin A-RAE (mcg)	0	
Saturated Fat (g)	0	Tota	l Carbohydrate (g)	3	3 Protein (g) 1 Calcium (mg) 10 Vitamin C (mg) 32.79								

CAULIFLOWER SALAD	SERVING SIZE: ½ CUP	
	ONE PORTION PROVIDES: ½ CUP OTHER VEGETABLE	

INGREDIENTS			50 SERVIN	GS	10 SERVINGS	DIRECT	IONS						
Cauliflower flore	ts, fre	esh	7 pounds	,	1 pound, 8	CCP: N	CCP : No bare-hand contact with ready-to-eat food.						
blanched			4 ounces		ounces	1. Trir	bite-sized pieces—bl	anch					
Mayonnaise, low	/ fat		2 ½ cups		½ cup	2. Cor	2. Combine mayonnaise, vinegar, mustard, and black						
Vinegar, apple ci	der		⅓ cup		1 tablespoon	pepper.							
Mustard, Dijon			1 tablespo	on,	1 teaspoon								
				ns									
Black pepper, gr	ound		2 ½ teaspo	oons	½ teaspoon								
Celery, sliced thi	nly		5 cups		1 cup	3. G	3. Gently combine celery, green onions, cauliflower,						
Onion, green, sli	ced th	ninly	1 ¼ cups		¼ cup	parsley, and dressing.							
Parsley, flat leaf,	chop	ped	½ cup,		2 tablespoons	4. C	4. Chill.						
	2 tablespoons					CCP: H	CCP: Hold and serve at 41°F or lower.						
NUTRIENTS PER SER	VING			L.		•							
Calories	30	Cholesterol	(mg)	0	Dietary Fiber (g)	2	Vitamin D (mcg)	0	Potassium (mg)	240			
Total Fat (g)	1	Sodium (mg	ng) 150		Added Sugars (g)	1	Iron (mg)	0.4	Vitamin A-RAE (mcg)	6.75			
Saturated Fat (g)	ed Fat (g) 0 Total Carbohydrate (g)			5	Protein (g)	1	Calcium (mg)	20	Vitamin C (mg)	34.59			

Source: Culinary Nutrition Associates LLC

ROASTED CAULIFLOWER WITH	SERVING SIZE: ½ CUP ONE PORTION PROVIDES: ½ CUP OTHER VEGETABLE	
TURMERIC	CNET ON HOW HOW DEST, 72 COT OTHER VEGET/ABLE	

INGREDIENTS		50 SERVINGS	10 9	SERVINGS	DIRECT	IONS					
Cauliflower, flore	ets	12 pounds	2 pc	ounds, 6	1. Preheat convection oven to 400°F. Line 3 sheet pans with						
			our	ices	parchment paper.						
					2. Tri	im c	auliflower and cut	or brea	k into 2-inch florets.		
Oil, olive		½ cup	2 ta	blespoons	3. Whisk olive oil, sesame oil, turmeric, and salt in a large bowl.						
Oil, sesame		½ cup	2 ta	blespoons	Add the cauliflower and toss to coat.						
Ground Turmeri	С	3 tablespoons	2 te	easpoons	4. Divide the cauliflower among the prepared sheet pans and						
Salt, kosher		1 tablespoon	1 te	easpoon	sp	reac	l in a single layer. R	loast ur	ntil golden, 18 to 20		
					minutes.						
					CCP: C	Cook	until internal tem	peratur	e reaches 135°F or a	bove.	
					CCP: H	lold	for hot service at 1	.35°F oı	higher.		
NUTRIENTS PER SER	RVING										
Calories	70	Cholesterol (mg)	0	Dietary Fiber (g)		2	Vitamin D (mcg)	0	Potassium (mg)	330	
Total Fat (g)	4.5	Sodium (mg)	150	Added Sugars (g)		0	Iron (mg)	0.7	Vitamin A-RAE (mcg)	0	
Saturated Fat (g)	1	Total Carbohydrate (g)	6	Protein (g)		2	Calcium (mg)	20	Vitamin C (mg)	52.47	

Source: New School Cuisine Cookbook: Nutritious and Seasonal Recipes for School Cooks by School Cooks, Vermont Agency of Education, School Nutrition Association of Vermont, USDA, Team Nutrition, and Vermont FEED. http://vtfeed.org/resource-library

BUFFALO CAULIFLOWER BITES SERVING SIZE: ½ CUP ONE PORTION PROVIDES: ½ CUP OTHER VEGETABLE

INGREDIENTS		50	SERVINGS		10 SERV	/INGS	DIRE	ECTIONS			
Cauliflower, fres	h	11	11 pounds, 4 ounces			nds, 4	1.	1. Preheat the oven to 400°F.			
(1 medium head	is ab	out 6 cups)			ounces	5	2.	2. Prepare the cauliflower into florets.			
Butter, melted ½ cup					2 table	spoons	3.	3. Whisk the butter, hot sauce and lemon ju			n juice.
Hot sauce (such as Frank's) 2 cups ½ cup 4. Toss the ca						auliflow	ver in the hot sauce r	nixture			
Lemon juice		1/4 (cup		1 table	spoon	n until well coated.				
-						5.	Spread the	e caulifl	ower onto a sheet tr	ay and	
								roast until	beginn	ing to brown and ter	nder,
								about 20 r	ninutes		
							ССР	: Cook unt	il interi	nal temperature read	hes
							135	°F or abov	e.		
							ССР	: Hold for	hot ser	vice at 135°F or high	er.
NUTRIENTS PER SEF	RVING	<u>.</u>									
Calories	45	Cholesterol (mg)	5	Dietary Fiber	r (g)	2	Vitamin I	D (mcg)	0	Potassium (mg)	280
Total Fat (g)	2.5	Sodium (mg)	510	Added Sugar	s (g)	0	Iron (mg)	0.4	Vitamin A-RAE (mcg)	43.43
Saturated Fat (g)	1.5	Total Carbohydrate ((g) 5	Protein (g)		2	Calcium	(mg)	20	Vitamin C (mg)	62.44

Day 2 / Team 3

		24, = / · · · · · · · ·
BLANCHED CARROTS	ONE SERVING: ½ CUP	
	ONE PORTION PROVIDES: ½ CUP RED/ORANGE VEGETABLE	

INGREDIENTS		50	SERVINGS		10 SERVINGS		Dı	RECTIONS			
Carrots, fresh, pe	eeled	and cut 8 p	ounds		1 pound 10 o	unces	1.	Prepare the	washe	d, cut carrots.	
Water, boiling				 Use a steam kettle, tilting braising pan, or stockpot to bring water to a boil. Place the carrots in the boiling water and cook for 2-3 minutes or until tender. To blanch small amounts of vegetables, place the vegetables i a colander and then set the whole colander in the boiling water. Immediately drain all hot water. 							
Ice bath							5.	Immerse the with ice), many submerged. the cooking Drain the vectored in the covered in the cove	e vegeta aking su Leave to procest getable he refri	ables in an ice bath (vure all the vegetables for about 1 minute to	s are o stop m r use.
NUTRIENTS PER SER	Nutrients Per Serving										
Calories	35	Cholesterol (mg)	0		ary Fiber (g)	2		nin D (mcg)		Potassium (mg)	
Total Fat (g)	0	Sodium (mg)	40		ed Sugars (g)	0	Iron		0	Vitamin A-RAE (mcg)	637.86
Saturated Fat (g)	0	Total Carbohydrate	g) 8	Prot	tein (g)	1	Calci	um (mg)	20	Vitamin C (mg)	5.67

MOROCCAN CARROT SALAD	SERVING SIZE: ½ CUP	
	ONE PORTION PROVIDES: ½ CUP RED/ORANGE VEGETABLE AND 1/8 CUP FRUIT	

INGREDIENTS			50 SER	VINGS		10 SERVINGS		DIRECTIONS	DIRECTIONS					
Carrots, matchst	icks		6 pour	nds		1 ¼ pound		CCP: No bare-h	and cor	ntact with ready-to-ea	at			
Raisins or dried	cherri	es	1 pour	nd		3 ½ ounces	3 ½ ounces food.							
Dressing										k carrots, dried raisir nixing bowl and set a				
Orange juice, fre	sh		¾ cup			2 ½ tablespoo	ns	2. Combine or	ange ju	ice, lemon juice, orar	nge			
Lemon juice, fresh ½ cup					1 ½ tablespoo				salt, and cinnamon in	_				
Orange zest 2 tablespoons				5	1 ½ teaspoon	S	bowl of a m	ixer. Mi	x on medium speed,	using				
Sugar, brown, pa	Sugar, brown, packed ¼ cup					1 tablespoon		a wire whip, until well blended. Alternatively,						
Salt, kosher			1 teas	poon		¼ teaspoon		you can mix	d by han	d in a mixing bowl wi	ith a			
Cinnamon, groui	nd		2 teas	poons		½ teaspoon		whisk.						
Oil, olive			1 cup			3 tablespoons	5	3. Slowly add the olive oil while mixing; whisk						
						until well combined.								
										namon dressing over				
										mix until carrots are	well			
								coated with		~				
								CCP: Hold and	serve at	41 F or lower.				
NUTRIENTS PER SERVING								<u>'</u>						
Calories	90	Cholesterol (mg	g)	0	Diet	ary Fiber (g)	3	Vitamin D (mcg)	0	Potassium (mg)	220			
Total Fat (g)	4	Sodium (mg)		90		ed Sugars (g)	1	Iron (mg)	0.8	Vitamin A-RAE (mcg)	0.41			
Saturated Fat (g)	0.5	Total Carbohyd	rate (g)	17	Prot	ein (g)	1	Calcium (mg)	30	Vitamin C (mg)	2.24			

Source: Washington State Schools "Scratch Cooking" Recipe Book, OSPI Child Nutrition Services, September 2013.

ROASTED CARROT FRIES	SERVING SIZE: ½ CUP	
	ONE PORTION PROVIDES: ½ CUP RED/ORANGE	
	VEGETABLE	

INGREDIENTS			50 SERVI	NGS	10 SERVINGS	DIF	RECTIONS				
Carrots, fresh, p into small st			10 pounds		2 pounds	1.	Purchase fresh car whole carrots into		ks for this recipe, or	cut	
Oil, canola 1/4			¼ cup		2 ½ teaspoons	2.	. Toss carrot sticks with the canola oil and seaso				
Garlic, granulated 2 tablespoons			½ tablespoons		until the carrots are lightly coated.						
Black pepper				⅓ teaspoon	abo	Roast in a preheat 30 minutes or unti caramelized.	ed 375° I the ca al temp	igle layer on sheet particular of the second	nately nd		
NUTRIENTS PER SER	RVING										
Calories	50	Cholesterol (r	mg)	0	Dietary Fiber (g)	2	Vitamin D (mcg)	0	Potassium (mg)	0	
Total Fat (g)	1	Sodium (mg)		45	Added Sugars (g)	0	Iron (mg)	0	Vitamin A-RAE (mcg)	785.07	
Saturated Fat (g)	0	Total Carbohy	ydrate (g)	10	Protein (g)	1	Calcium (mg)	20	Vitamin C (mg)	7.04	

Recipe Notes:

Hold hot at 140° F until served. Portion with a 4-ounce spoodle (½ cup). Heat to 145° F or higher for at least 15 seconds.

Optional: Salt-free seasonings such as onion powder, Italian seasoning, and/or black pepper may be added to taste when tossing the carrots and oil together.

Source: Oklahoma Farm to School

HONEY CARROT COINS	SERVING SIZE: ½ CUP	
	ONE PORTION PROVIDES: ½ CUP RED/ORANGE VEGETABLE	

INGREDIENTS			50 SE	RVINGS		10 SERVINGS	NGS DIRECTIONS					
Carrots, peeled	and sl	iced	12 pc	unds, 8		2 pounds, 8			ender but still slightl	y firm,		
			ounce	es		ounces	checking for doneness, if necessary, about 5					ıt 5-10
Honey			1 cup			¼ cup			minutes, dep	ending	on the intensity of	
Butter			4 our	ices		1 ounce			your steamer	. (Alteri	natively, boil 2 inche	s of
Lemon juice, fre	sh		¼ cup	, 2		1 ½			water to cook	c in a po	ot. Add carrots and c	over,
			table	spoons								
Salt, kosher			1 tab	lespoon		1 teaspoon	2. Stir in the honey, butter, lemon juice, salt, ar				t, and	
Black pepper, gr	ound		1 tea	spoon		½ teaspoon			pepper until v	well cor	nbined.	
				•			(CC	P : Cook until interi	nal tem	perature reaches 13	5°F or
							1	abo	ove.			
								CC	P: Hold for hot ser	vice at	135°F or higher.	
NUTRIENTS PER SEI	RVING											
Calories	100	Cholesterol (mg)		5	Dietary Fiber (g)			3	Vitamin D (mcg)	0	Potassium (mg)	10
Total Fat (g)	2.5	Sodium (mg)		270	Added Sugars (g)			7	Iron (mg)	0	Vitamin A-RAE (mcg)	1000.74
Saturated Fat (g)	1.5	Total Carbohydr	ate (g)	19	Prot	ein (g)		2	Calcium (mg)	30	Vitamin C (mg)	9.65

Source: Massachusetts Farm to School

PICKLED SPICY CARROTS	SERVING SIZE: N/A USED AS GARNISH	
	DOES NOT CREDIT QUANTITIES USED AS GARNISH	

INGREDIENTS			50 SERVI	INGS	10 SERVINGS	Dir	DIRECTIONS						
Water			3 cups		½ cup, 2	1.	1. Bring water, vinegar, salt, and sugar to a boil in a						
					tablespoons	sm	small pot.						
Vinegar, apple c	ider		3 cups		½ cup, 2								
					tablespoons	2.	2. Place carrots and jalapenos in a large bowl. Pour						
Salt, kosher 2 tablespoons 1 ½ teaspo							pickling liquid over the vegetables. Marinate for 1-2						
Sugar, white gra	nulat	ed	5 tables	spoons	s 1 tablespoon		urs or refrigerate fo	_					
Carrots			10 cups	5	2 cups	((CCP: Hold and serve at 41°F or lower.						
Jalapenos			1 cup		¼ cup		r. Hold alla serve a		i iower.				
NUTRIENTS PER SEF	RVING												
Calories	15	Cholesterol (mg)		0	Dietary Fiber (g)	1	Vitamin D (mcg)	0	Potassium (mg)	90			
Total Fat (g)	0	Sodium (mg)		310	Added Sugars (g)	1	Iron (mg)	0.1	Vitamin A-RAE (mcg)	215.05			
Saturated Fat (g)	0	Total Carbohydrat	te (g)	4	Protein (g)	0	Calcium (mg)	10	Vitamin C (mg)	4.18			

Source: Culinary Nutrition Associates LLC

BUTTERNUT SQUASH PARFAIT	SERVING SIZE: 1 PARFAIT	
	ONE PORTION PROVIDES: 1 OZ. MEAT/MEAT ALTERNATE, 1/4 CUP RED/ORANGE VEGETABLE, 1/4 CUP FRUIT, 1 OZ. GRAIN EQUIVALENT	

INGREDIENTS		60 SERVINGS		10 SERVINGS	DIF	ECTIONS						
Butternut squash, f	froze	en 20 pounds (approx. 8 fresh squash)	ou	oounds, 6 Inces (approx. ½ fresh squash)	1. 2.		ree baking sheets. T s olive oil and two	oss				
Olive oil		3/8 cup	1 t	ablespoon		tables	poons maple syrup).				
Maple syrup		3/8 cup	1 t	ablespoon								
Salt		2 teaspoons	1/2	teaspoon	3.	Sprink	le each sheet even	ly with	salt and cinnamon. 1	Γoss the		
Cinnamon, ground	2 tablespoons	1 t	ceaspoon		squash set asi	•	it evenly	y. Bake for 30 minute	es, then			
Cranberries, dried 7-1/2 cups			1 3	¼ cup	CCP : No bare-hand contact with ready-to-eat food.							
Yogurt, vanilla, non	n-fat	15 pounds	2 2	∕₂ pounds	4. In one 8-fluid ounce cup, add 4 ounces, or ½ cup, of yogu							
Granola, whole grain-rich		4 pounds	11	ounces	5. 6.	Add 1 Top gr cranbe	ounce of granola canola with ½ cup s	on top o quash a	f yogurt. and 1/8 cup dried	yogurt.		
NUTRIENTS PER SERVIN	NG	<u>.</u>										
Calories 35		Cholesterol (mg)	5	Dietary Fiber (g)		4	Vitamin D (mcg)	1	Potassium (mg)	790		
1 2 2 2 1 2 1 2 1 2 1 2 1		Sodium (mg)	200	Added Sugars (g)		1	Iron (mg)	3.8	Vitamin A-RAE (mcg)	1105.22		
Saturated Fat (g) 0.).5	Total Carbohydrate (g)	76	Protein (g)		7	Calcium (mg)	220	Vitamin C (mg)	32.16		

Source: Reprinted/ excerpted from American Indian Traditional Foods in USDA School Meals Programs with permission from the Wisconsin Department of Public Instruction, 125 South Webster Street, Madison WI 53703, 1-800-243-8782.

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ROASTED BUTTERNUT SQUASH SERVING SIZE: ½ CUP

ONE PORTION PROVIDES: ½ CUP RED/ORANGE

VEGETABLE

INGREDIENTS			50 S	ERVINGS		10 SERVING	3S	DIRECTIONS				
Butternut squas cut into ½ in Steam or microv minutes to make	oes squash for 3	·			2 pounds, 12 ounces		Distribute th	 Spray four full sheets lightly with food r Distribute the squash evenly among par single layer, carefully not to overcrowd pans. 				
Butter, unsalted	•		1/4 pc	und		2 tablespo	oons	2. Mix the butt	er with	olive oil, brown suga	r, salt,	
Oil, olive		¾ CL	ıp		1 ½ tables	spoon	cinnamon, a	nd pepp	er. Mix thoroughly.			
Sugar, brown, pa		2 1/4	cups		½ cup		3. Divide the b	utter mi	xture equally among	pans.		
Salt, kosher	4 teaspoons			¾ teaspoon		Stir until squash is well coated.						
Cinnamon, ground (Optional)				tablespo	oons	1 teaspoo	n	4. Roast, uncovered, until cooked through and lightly browned.				
Black pepper, ground				1 teaspoon		¼ teaspoo	 Convection Oven: Bake at 35 20-30 minutes. Conventional Oven: Bake at 30-35 minutes. CCP: Cook until internal temperature 135°F or above. CCP: Hold for hot service at 135°F or 		ven: Bake at 375° F; a	about		
NUTRIENTS PER SERVING							1 1					
Calories	130	Cholesterol (mg)		5	Dietary I		2	Vitamin D (mcg)	0	Potassium (mg)	390	
Total Fat (g)	4.5	Sodium (mg)	-+- (-\	150	Added Sugars (g)			Iron (mg)	0.8	Vitamin A-RAE (mcg)	576.38	
Saturated Fat (g)	2	Total Carbohydra		23	Protein (1	Calcium (mg)	60	Vitamin C (mg)	22.01	

SOURCE: Owatonna Public Schools, Now We're Cooking! A collection of Simple Scratch Recipes Served in Minnesota Schools, Minnesota Department of Healthy. www.health.state.mn.us/divs/hpcd/chp/cdrr/nutrition/greattrays/pdfs/NowCooking.pdf

Mashed Butternut Squash	SERVING SIZE: ½ CUP	
	One portion provides: ½ cup red/orange	
	VEGETABLE	

INGREDIENTS			50 SERVIN	GS	10 Servings	DIREC	TIONS						
Butternut squas	h		16 pounds		3 ¼ pounds	sr 30 C0 2. M	 Steam squash until soft. Time will depend on how small the pieces are and the type of steamer used, 10 30 minutes (check after 10 minutes). CCP: Heat to 135°F or higher. Mash butternut in a mixer or food processor until smooth. 						
Butter 6 ounces					2 tablespoons	3. WI	3. While squash is hot, mix in butter, brown sugar, salt,						
Salt, kosher			2 teaspoo	ons	½ teaspoon	cinna	cinnamon, and pepper.						
Sugar, brown, pa	acked		½ cup		1 tablespoon	CCP:	CCP : Cook until internal temperature reaches 135°F or						
Cinnamon			1 tablesp	oon	½ teaspoon	above	above.						
Black pepper, gr	ound		1 teaspoo	on	1/8 teaspoon	CCP:	Hold for hot service	e at 135	5°F or higher.				
NUTRIENTS PER SEF	NUTRIENTS PER SERVING					•							
Calories	80	Cholesterol	(mg)	5	Dietary Fiber (g)	3	Vitamin D (mcg)	0	Potassium (mg)	440			
Total Fat (g)	2.5	Sodium (mg	;)	120	Added Sugars (g)	1	Iron (mg)	0.9	Vitamin A-RAE (mcg)	677.61			
Saturated Fat (g)	1.5	Total Carbo	hydrate (g)	160	Protein (g)	1	Calcium (mg)	60	Vitamin C (mg)	26.01			

Source: Fresh From the Farm: The Massachusetts Farm to School Cookbook, http://www.massfarmtoschool.org/wp-content/uploads/2012/05/farm_to_school_cookbook.pdf

GIARDINIERA	SERVING SIZE: N/A USED AS GARNISH	
	DOES NOT CREDIT QUANTITIES USED AS GARNISH	

INGREDIENTS			50 SER	VINGS		10 SERVINGS	DIR	ECTIONS				
Vinegar, apple c	ider		3 cups	5		½ cup	1.	1. Bring vinegar, water, salt, and sugar to a boil in				
Water			3 cups	5		½ cup		small pot.				
Salt, kosher			2 table	espoon	ıs	1 teaspoon						
Sugar, white granulated 2 tables				espoon	ıs	1 teaspoon						
Carrots, sliced 2 ½ cups				½ cup	2.	2. Place vegetables in a large bowl.						
Cauliflower, florets 2 ½ cups				½ cup	3.	Pour pickling liqui	d over	vegetables.				
Peppers, bell, re	d, bat	tonet cut	2 ½ cu	ıps		½ cup 4. Marinate for 1 to 2 hours or refrigerate			or refrigerate for up	to 3		
Zucchini, sliced			2 ½ cu	ıps		½ cup		days.				
				•		•	CC	P: Hold and serve a	at 41°F	or lower.		
NUTRIENTS PER SEI	RVING											
Calories	10	Cholesterol (mg)		0 Dietary Fibe		ry Fiber (g)	0	Vitamin D (mcg)	0	Potassium (mg)	60	
Total Fat (g)	0	Sodium (mg)		200	Added Sugars (g)		0	Iron (mg)	0.1	Vitamin A-RAE (mcg)	61.28	
Saturated Fat (g)	0	Total Carbohydra	te (g)	2	Protein (g)		0	Calcium (mg)	0	Vitamin C (mg)	9.94	

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Source: Culinary Nutrition Associates LLC

Day 2 / Team 5

ZUCCHINI FRIES		SERVING SIZE: ½ CUP ONE PORTION PROVIDES: ½ CUP OTHER VEGETABLE					,	ream 3		
INGREDIENTS	50 SERVINGS		10 Servings	DIRECTION	ONS					
Squash, summer, fresh	10 pounds		2 pounds		heat oven to 40 sh and cut zucc		inches by 1-inch stick	ζS.		
Flour, all-purpose, enriched	2 ½ cups		½ cup	3. Combine flour, salt, and pepper in the first						
Salt, kosher	5/8 teaspoo	n	1/8 teaspoon		, , , , , , , , , , , , , , , , , , , ,					
Black pepper	5/8 teaspoo	n	1/8 teaspoon							
Eggs, large	5 large		2 large	4. Wh	. Whisk eggs well with three tablespoons of wate					
Water	1 cup		3 tablespoons	sec	ond bowl.					
Breadcrumbs, panko 1 quart, 1 cu			1 cup	5. Combine breadcrumbs, cheese, and Italian seasoning in						
Parmesan, cheese, grated	2 ½ cups		½ cup	a th	ird bowl. Mix v	vell.				
Parmesan, cheese, grated 2 ½ cups Italian seasoning 5 tablespoor			1 tablespoon	a pa the the 7. Bak half thro CCP: Co above.	archment-lined in egg, then bre sheet pan, spa e the zucchini s way through) u	sheet pandadcrumbs, cing 1/2 industricks for 15 until crispy al tempera	ur, egg, breadcrumbs Dip zucchini sticks ir coating evenly. Place ch apart. Repeat. 5-20 minutes (rotatin and the zucchini is co ture reaches 135°F o	flour, e on g poked		
NUTRIENTS PER SERVING							.			
Calories 90 Cholester	col (mg)	20	Dietary Fiber (g)	1	Vitamin D (mcg)	0.1	Potassium (mg)	250		
Total Fat (g) 2 Sodium (, ,,	120	Added Sugars (g)	0	Iron (mg)	1	Vitamin A-RAE (mcg)	27.72		
	rbohydrate (g) 120 Added Sugars (g) Protein (g)			4	Calcium (mg)	60	Vitamin C (mg)	15.50		

SOURCE: Adapted from Windham Raymond School Department, Windham, Maine

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ROASTED RATATOUILLE	SERVING SIZE: ½ CUP	
	ONE PORTION PROVIDES: ½ CUP OTHER VEGETABLE	

INGREDIENTS			50 SER	VINGS	10 SERVIN	GS	DIF	RECTIONS				
Squash, summer (z	ucc	hini) fresh, sliced	3 ½ pc	unds	12 ounce	S	1.	Pre-heat con	vection	oven to 375°F (400°	F for	
into ¼ inch thic	k ha	alf-moons						conventional	l oven).			
Squash, summer, (y	yell	ow) fresh, sliced	3 ½ pc	unds	12 ounces		2.	Prepare vege	etables.	Place vegetables on		
into ¼-inch thic	k h	alf-moons						parchment p	aper lin	ed sheet trays in a si	ngle	
Onion, red, fresh, t	hin	ly sliced	1 ¼ po	und	2 ounces			layer. Do not	overcr	owd the sheet pans.		
Peppers, sweet, gre	een	, fresh, thinly sliced	1 pour	nd	2 ounces							
Peppers, sweet, red, fresh, thinly sliced			1 pour	nd	2 ounces							
Tomatoes, cherry			1 ½ pc	und	2½ ounc	es						
Oil, canola			½ cup		2 tablespoons		3.	B. Mix oil, salt, pepper, garlic, Italian seasoning,				
Salt, kosher			1½ teaspoon		½ teaspoon			and red pepper flakes.				
Black pepper			1 ½ te	aspoon	¼ teaspo	on	4.	4. Pour the oil mixture over the vegetables and				
Garlic, granulated			1 tablespoon		1 teaspo	on		toss until evenly coated.				
Italian seasoning bl	lend	ł	1 tablespoon		1 teaspoon		5.	Roast until to	matoe	s pop and other vege	tables	
Red pepper flakes,	opt	ional	1 teaspoon		1/8 teasp	oon			• •	nately 15 minutes. If		
								=		roasting for 5-10 mir	nutes	
								until vegetab				
									nternal	temperature reache	S	
							13.	5°F or above.				
							CC	P: Hold for ho	t service	e at 135°F or higher.		
NUTRIENTS PER SERVIN	Per Serving											
	45	Cholesterol (mg)	0	Dietary Fi		1	Vita	min D (mcg)	0	Potassium (mg)	140	
νο,	3.5	Sodium (mg)	105	Added Su		0		(mg)	0.3	Vitamin A-RAE (mcg)	16.80	
Saturated Fat (g)	0	Total Carbohydrate (g)	3	Protein (g	;)	1	Calc	ium (mg)	10	Vitamin C (mg)	20.34	

SOURCE: Rebecca Polson, Spartanburg County School District Six

ZUCCHINI PARMESAN	SERVING SIZE: ½ CUP	
	ONE PORTION PROVIDES: ½ CUP OTHER VEGETABLE AND 0.25 OZ M/MA	

INGREDIENTS			50 SE	RVINGS	10 SERVINGS	DIF	REC	TIONS			
Squash, summer	r, fres	h, sliced	12 pc	unds	2 pounds, 12	1.	Pı	reheat convection (oven to	350°F.	
					ounces		Fo	or 10 servings: Coa	t one 2-	inch, half-hotel pan	with
Onions, peeled,	sliced		2 pou	ınds	6 ounces			cooking spray.			
Garlic, peeled, s	liced t	hin	8 clov	/es	2 cloves		F	inch hotel pans with	1		
Tomato sauce o	r mari	nara	1 gall	on	3 cups			cooking spray.			
						2.	Pı	repare vegetables.			
						3.	D	ividing ingredients	evenly	between the two pa	ns (for
							50	O servings), layer ha	alf the z	ucchini, all the onior	n and
							ga	arlic, then the rema	aining z	ucchini. Divide the sa	auce
							b	etween the pans. C	Cover ar	nd bake until just ten	der,
							al	oout 20 minutes.			
Mozzarella, part	-skim	, shredded	1 pou	ınd	3 ounces	4.	U	ncover and sprinkle	e with r	nozzarella and Parm	esan
Parmesan chees	e, gra	ted	1 qua	ırt	¾ cup		cł	neeses. Bake, unco	vered u	ntil the cheese is me	lted
							ar	nd bubbly, 5 to 10 i	minutes	s more.	
						CC	P:	Cook until internal	tempe	ature reaches 135°F	or
						ab	ove	e.			
						CC	P:	Hold for hot service	e at 135	5°F or higher.	
NUTRIENTS PER SERVING											
Calories	100	Cholesterol (mg))	10	Dietary Fiber (g)		1	Vitamin D (mcg)	0.1	Potassium (mg)	270
Total Fat (g)	5	Sodium (mg)		530	Added Sugars (g)		0	Iron (mg)	1	Vitamin A-RAE (mcg)	50.69
Saturated Fat (g)	2.5	Total Carbohydr	ate (g)	9	Protein (g)		5	Calcium (mg)	140	Vitamin C (mg)	11.20

Source: New School Cuisine Cookbook: Nutritious and Seasonal Recipes for School Cooks by School Cooks, Vermont Agency of Education, School Nutrition Association of Vermont, USDA, Team Nutrition, and Vermont FEED. http://vtfeed.org/resource-library

TURMERIC ZUCCHINI	SERVING SIZE: N/A USED AS GARNISH	
	DOES NOT CREDIT QUANTITIES USED AS GARNISH	

INGREDIENTS			50 SEF	RVINGS		10 SERVINGS	D	IRE	ECTIONS			
Water			3 cup	S		½ cup, 2	1.		Bring water, vineg	ar, salt,	and sugar to a boil in	a small
						tablespoons			pot.			
Vinegar, apple c	ider		3 cup	S		½ cup, 2						
					tablespoons	2.	2. Place turmeric and zucchini in a large bowl			ıl. Pour		
Salt, kosher 2 tablespoor				ıS	1 teaspoon	n pickling liquid over the vegetables. Marinate f					for 1-2	
Sugar, white granulated 5 tab				5 tablespoons		1 tablespoon		hours or refrigerate for up to 3 days.				
Zucchini, sliced			10 cu	ps		2 cups						
Turmeric			3 tab	lespoon	ıS	2 teaspoons	C	СР	: Hold and serve a	t 41°F c	or lower.	
NUTRIENTS PER SER	RVING					1						
Calories	10	Cholesterol (mg)		0 Dietary Fiber (g)			0	Vitamin D (mcg)	0	Potassium (mg)	70	
Total Fat (g)	0	Sodium (mg)	·	190	Added Sugars (g)			1	Iron (mg)	0.3	Vitamin A-RAE (mcg)	2.48
Saturated Fat (g)	0	Total Carbohydra	ate (g)	2	Protein (g)		(0	Calcium (mg)	10	Vitamin C (mg)	4.44

Source: Culinary Nutrition Associates LLC

EDAMAME AND CORN SALAD

SERVING SIZE: ½ CUP

ONE PORTION PROVIDES: ¼ CUP STARCHY VEGETABLE AND 1/8 CUP BEANS, PEAS, AND

LENTILS

INGREDIENTS			65 SERVING	GS	10 SERVI	NGS	DIR	ECTIONS			
Dressing											
Mayonnaise, low	v-fat		14 ounce	S	2 ounce	2 ounces		1. Whisk together mayonnaise and		yonnaise and lemon	juice.
Lemon Juice, fre	sh		10 ounce	S	1½ ounces						
Black pepper, gr	ound		2 teaspoo	ns	¼ teasp	¼ teaspoon		Add season	ings an	d stir until well comb	ined.
Ginger root, raw	, grate	ed	1 tablesp	½ teasp	oon	n Let stand			rator overnight.		
Salad											
Whole Kernel Sweet Corn			18 cups, o	drained	2 ¾ cups	S	3.	Drain corn (substituted	•	d frozen corn may be	!
Edamame, bland	hed		8 ¾ cups		1 1/3 cu	ps	4.	Combine co	orn, eda	imame, onion, red pe	epper
Onions, chopped	d, raw		2 ½ cups		1/3 cups			and cilantro	o. Mix w	vell.	
Peppers, bell, re	d, dice	ed	2 ½ cups		1/3 cups	1/3 cups 5. Add dressing and mix until			nix until ingredients	are	
Cilantro leaves, i	raw, c	hopped	1 cup		2 tables	poons		well coated	l with d	ressing.	
							CCF	P: Hold and s	erve at	41°F or lower.	
NUTRIENTS PER SER	RVING				1						
Calories	70	Cholesterol (mg)	0	Dietary Fib	er (g)	2	Vitami	in D (mcg)	0	Potassium (mg)	190
Total Fat (g)	2.5	Sodium (mg)	150	Added Sug	ugars (g) 0 Ir		Iron (n	ng)	0.6	Vitamin A-RAE (mcg)	9.84
Saturated Fat (g)	0	Total Carbohydrate	(g) 10	Protein (g)		4	Calcium (mg)		30	Vitamin C (mg)	12.45

Source: Saint Paul Public Schools, *Now We're Cooking! A collection of Simple Scratch Recipes Served in Minnesota Schools*, Minnesota Department of Healthy. www.health.state.mn.us/divs/hpcd/chp/cdrr/nutrition/greattrays/pdfs/NowCooking.pdf

ESQUITES				ONE		Size: ½ CUP TION PROVIDES: ½ C E	CUP STAF	RCHY				
INGREDIENTS			50 SEF	RVINGS		10 SERVINGS	DIR	ECTIONS				
Corn, yellow, wh	ole k	ernel, frozen	2 gall	ons		1½ quarts	1.	1. Steam corn for 4 minutes or until at 135 F.				
Yogurt, Greek, p	lain, v	whole milk	20 ou	ounces		4 ounces	2.	In a mixing bowl, o	combine	the yogurt, mayonr	naise,	
Mayonnaise, low	v-fat		20 ounces		4 ounces		chipotle chili powder, chopped cilantro, mince			ed		
Chipotle chili po	wder		1 ¼ te	teaspoons		¼ teaspoon		garlic, juice, and zest from the lime(s) and		the lime(s) and mos	st of	
Garlic, raw 5 clove				es es		1 clove		the Parmesan che	ese (res	erve some for sprink	ling on	
Cilantro, fresh, c	hopp	ed	2 ½ cı	½ cups		½ cup				g with a little cilantro	o).	
Limes, raw			5 eac	ach		1 each	3.	Add the cooked co	orn and	toss to coat well.		
Cheese, parmesa	an, gr	ated	2 ½ cı	ups		½ cup						
Paprika 1 table teaspo					, 2	1 teaspoon	 4. Garnish with paprika, remaining Parme chopped cilantro. CCP: Cook until internal temperature reach above. CCP: Hold for hot service at 135°F or higher 					
NUTRIENTS PER SER	RVING											
Calories	110	Cholesterol (mg	()	5		ary Fiber (g)	2	Vitamin D (mcg)	0	Potassium (mg)	200	
Total Fat (g)	3	Sodium (mg)		180		ed Sugars (g)	1 4	Iron (mg)	0.5	Vitamin A-RAE (mcg)	34.55	
Saturated Fat (g)	1	Total Carbohyd	rate (g)) 20 Protein (g)				Calcium (mg)	50	Vitamin C (mg)	7.55	

Source: Adapted from Windham Raymond School Department

CORN PUDI	OINC	3			ING SIZE:	% CLID STA	PCH VEGETARI E				
				ONE	PORTION PROVIDES. /	4 CUP STA	KCH VEGETABLE				
INGREDIENTS			50 SERVING	S	25 SERVINGS	DIREC	TIONS				
Milk, nonfat			2 cups		1 cup 1. Combine milk, flour, eggs, oil, sugar, peppe						
Flour, all-purpos	e, en	riched	12 ounces		6 ounces	ทเ	itmeg in the mi	xer bowl. N	lix with a whip on lov	v for 2	
Eggs, large			14 large		7 large		minutes, 1 minute at medium speed, and 1 minute at				
Oil, canola			4 ounces		2 ounces	hi	gh speed. It ma	y be mixed	by hand.		
Sugar, white gra	nulat	ed	2 tablespo	ons	1 tablespoon						
White pepper			1 teaspoor	ı	½ teaspoon						
Nutmeg, ground			1 teaspoor	ı	½ teaspoon						
Corn, canned or	froze	n	2 quarts		1 quart	2. Cł	ange to paddle	e. Add whole	e-kernel corn and cre	eam-	
					1 quart	 Popa Ba Co CCP: 0 above 	n release spray For 50 portio For 25 portio pan. Ike until golden Inventional ove Invection oven Cook until inter	o a steam ta /. ns use 12"x ns, use a on brown. en at 375°F for at 325°F for nal tempera	ble pan lightly coated 20"x2" steamtable panse-half - 2-inch steam For 50-60 minutes. Tor 30-40 minutes. The start of the steam of the steam of the steam of the steam of the start of the	an. table	
NUTRIENTS PER SER	RVING										
Calories	130	Cholestero		20 Dietary Fiber (g)			Vitamin D (mcg)	0.4	Potassium (mg)	60	
Total Fat (g)	6	Sodium (m	<u> </u>		Added Sugars (g)	1	Iron (mg)	0.9	Vitamin A-RAE (mcg)	22.97	
Saturated Fat (g) 0.5 Total Carbohydrate (g) 16 Prote				Protein (g)	3	, 0,	40	Vitamin C (mg)	0.03		

SOURCE: Menus that Move, Ohio Department of Education, http://education.ohio.gov/Topics/Other-Resources/Food-and-Nutrition/Resources-and-Tools-for-Food-and-Nutrition/Menus-that-Move

PICKLED JALAPENOS	SERVING SIZE: N/A USED AS GARNISH	
	DOES NOT CREDIT IN QUANTITIES USED AS GARNISH	

INGREDIENTS 50 s		50 SEF	RVINGS	10 SERVINGS		DIF	DIRECTIONS					
Water		3 cups		½ cup, 2 tablespoons	1.	 Bring water, vinegar, salt, and sugar to a boil in a small pot. 			n a			
Vinegar, apple cider		3 cups		½ cup, 2 tablespoons								
Salt, kosher		2 tablespoons		1 ½ teaspoons								
Sugar, white granulated		5 tablespoons		1 tablespoon								
Jalapenos		10 cups		2 cups	OV	2. Place jalapenos in a large bowl. Pour pickling liquid over vegetables. Marinate for 1-2 hours or refrigerate for up to 3 days.						
					СС	CCP: Hold and serve at 41°F or lower.						
Nutrients Per Serving												
Calories	10	Cholesterol (mg)		0	Diet	ary Fiber (g)	0	Vitamin D (mcg)	0	Potassium (mg)	40	
Total Fat (g)	0	Sodium (mg)		290	Added Sugars (g)		1	Iron (mg)	0	Vitamin A-RAE (mcg)	9.70	
Saturated Fat (g)	0	Total Carbohydra	ate (g)	2	Prot	ein (g)	0	Calcium (mg)	0	Vitamin C (mg)	21.35	

Source: Culinary Nutrition Associates LLC

BLANCHED GREEN BEANS	SERVING SIZE: ½ CUP	
	ONE PORTION PROVIDES: ½ CUP OTHER VEGETABLE	

INGREDIENTS		!	50 SERVII	NGS	10 SERVIN	GS	D	IRECTIONS			
Green beans, fre	sh, tr	immed, whole	6 ¼ poui	nds	1 pound	4 ounce	s 1.	Prepare t	he wasl	ned, cut green beans	
Water, boiling						2.	stockpot green bea for 2-3 m vegetable colander the boilin	to bring ans in th inutes. es, place and the ig water	le, tilting braising par g water to a boil. Place ne boiling water and To blanch small amo e the vegetables in a en set the whole cola f.	cook unts of	
Ice						4. C0	(water wi vegetable 1 minute	ith ice), es are su to stop	etables in an ice bath making sure all the ubmerged. Leave for the cooking process at 41°F or lower.	about	
NUTRIENTS PER SER	RVING	·									
Calories	20	Cholesterol (mg)	0	Dietary Fi	ber (g)	2	Vitamin	D (mcg)	0	Potassium (mg)	120
Total Fat (g)	0	Sodium (mg)	0	Added Su	gars (g)	0	Iron (m	g)	0.6	Vitamin A-RAE (mcg)	19.56
Saturated Fat (g)	0	Total Carbohydrate (g)	4	Protein (g	g)	1	Calcium	ı (mg)	20	Vitamin C (mg)	6.92

Day 2 / Team 7

GREEN BEAN SALAD WITH ALMONDS SERVING SIZE: ½ CUP ONE PORTION PROVIDES: ½ CUP OTHER VEGETABLE

INGREDIENTS			50 SERVIN	GS	10 SERVINGS	DIRECT	TIONS						
Almonds, whole	, roas	ted	2 cups		½ cup	CCP: N	CCP : No bare-hand contact with ready-to-eat food.						
Tamari					2 tablespoons	sa th	 Lightly toast the almonds over medium-high heat in a sauté pan (or in an oven), about 3 minutes. Add half of the tamari and stir until the almonds are coated evenly about 30 seconds. Cool. Chop the almonds roughly. 						
Green beans, tri	Green beans, trimmed 6 ¼ pou				1 pound, 4 ounces	2. Blanch the green beans.							
Oil, sesame			½ cup		2 tablespoons	3. In	3. In a large bowl, combine the sesame oil, vinegar, garlic,						
Vinegar, rice wir	ne		¾ cup		3 tablespoons	gir	ginger, and remaining tamari. Add the drained green						
Garlic, minced			2 Tablesp	oons	2 teaspoons	be	ans and toss to coa	at. Garn	ish with roasted almo	onds.			
Ginger, fresh, pe	eled,	grated	2 tablesp	oons	2 teaspoons	CCP: H	Hold and serve at 4	1°F or lo	ower.				
NUTRIENTS PER SEF	RVING												
Calories	90	Cholesterol	(mg)	0	Dietary Fiber (g)	2	Vitamin D (mcg)	0	Potassium (mg)	170			
Total Fat (g)	7	Sodium (mg	;)	200	Added Sugars (g)	0	Iron (mg)	0.8	Vitamin A-RAE (mcg)	19.56			
Saturated Fat (g)	0.5	Total Carbo	hydrate (g)	6	Protein (g)	3	Calcium (mg)	40	Vitamin C (mg)	6.94			

SESAME-ROASTED GREEN	SERVING SIZE: ½ CUP	
BEANS	ONE PORTION PROVIDES: ½ CUP OTHER VEGETABLE	

INGREDIENTS			50 S	ERVINGS		10 SERVINGS		DIF	RECTIONS				
Green Beans, tri	mme	t	12 p	ounds		2 pounds, 6 o	unces	1.	Preheat conve	ction o	ven to 300°F or		
									conventional o	oven to	325°F.		
Oil, canola			¼ cu	¼ cup		1 tablespoon		2.	Drizzle the gre	en bea	ns with the oil and sp	rinkle	
Oil, sesame			1 tablespoon 1 teasp			1 teaspoon			with salt and pepper. Divide green beans amo				
Salt, kosher 1 tablespoon 1 teaspoon four full sl					four full sheet	pans (f	or 50 portions) and s	pread					
Black pepper, gr	2 tea	spoons	;	½ teaspoon			in a single laye	r. Bake for 15 minutes.					
Sesame Seeds ½ cup						2 tablespoons	5	3. Stir the sesame seeds evenly into each pan of					
								the green beans and bake until they start to					
						brown, 4 to 5 minutes more.			s more.				
								CCP : Cook until internal temperature reach				135°F	
								or	above.				
								CCP : Hold for hot service at 135°F or higher.					
NUTRIENTS PER SEF	RVING						_						
Calories	60	Cholesterol (mg)		0	Diet	ary Fiber (g)	3	Vit	amin D (mcg)	0	Potassium (mg)	230	
Total Fat (g)	2.5	Sodium (mg)		200	Add	ed Sugars (g)	0	Iro	n (mg)	1.2	Vitamin A-RAE (mcg)	37.21	
Saturated Fat (g)	0	Total Carbohydra	te (g)	8	Prot	ein (g)	2	Cal	lcium (mg)	40	Vitamin C (mg)	13.15	

SERVING NOTES:

Pan size	12x20x2 Steam Table Pan
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Source: New School Cuisine Cookbook: Nutritious and Seasonal Recipes for School Cooks by School Cooks, Vermont Agency of Education, School Nutrition Association of Vermont, USDA, Team Nutrition, and Vermont FEED. http://vtfeed.org/resource-library

Pizza Green Beans	SERVING SIZE: ½ CUP	
	ONE PORTION PROVIDES: ½ CUP OTHER VEGETABLE	

INGREDIENTS			50 SERVI	NGS	12 SERVINGS	DIRE	CTIONS					
Green beans, en	ds sni	pped	9 ¼ pou	nds	1 pound, 8 ounces	ounces and still brig			perforated pan until tender but firm een, about 4-8 minutes, depending of the steamer.			
Oil, olive			¼ cup		1 tablespoon	2. H	2. Heat oil in a small skillet pan. Add garlic and heat very					
Garlic, minced		¼ cup		1 tablespoon		briefly, over medium-low heat, just until the garlic starts to cook (do not brown garlic).						
Tomatoes, canned, diced, 16 ou drained				es	½ cup							
Oregano, dried			½ cup		2 tablespoons	S	steam table pan and serve.					
Salt, kosher			2 teaspo	ons	½ teaspoon	CCP:	CCP : Cook until internal temperature reaches 135°F or					
Black pepper, gr	ound		1 teaspo	oon	¼ teaspoon		above. CCP : Hold for hot service at 135°F or higher.					
NUTRIENTS PER SEF	RVING											
Calories	40	Cholesterol (mg)	0	Dietary Fiber (g)	2	Vitamin D (mcg)	0	Potassium (mg)	160		
Total Fat (g)	1.5	Sodium (mg)		110	Added Sugars (g)	0	Iron (mg)	0.9	Vitamin A-RAE (mcg)	24		
Saturated Fat (g)	0	Total Carboh	ydrate (g)	5	Protein (g)	1	Calcium (mg)	40	Vitamin C (mg)	8.31		

Source: adapted from Pizza Green Beans, What's Cooking, USDA Mixing Bowl, https://whatscooking.fns.usda.gov/quantity/child-nutrition-cnp/pizza-green-beans-usda-recipe-schools

Day 2 / Team 7

DILLY GREEN BEANS	SERVING SIZE: N/A USED AS GARNISH	
	DOES NOT CREDIT IN QUANTITIES USED AS GARNISH	

INGREDIENTS			50 SEF	RVINGS		10 SERVINGS	Dii	RE	CTIONS				
Water			3 cup	S		½ cup, 2	1.	,	Bring water, vineg	ar, salt	, and sugar to a boil i	n a	
						tablespoons		:	small pot.				
Vinegar, apple c	ider		3 cup	S		½ cup, 2							
						tablespoons							
Salt, kosher			2 tablespoons ½ tablespoon										
Sugar, white gra	Sugar, white granulated				S	1 tablespoon							
Green beans, trimmed 10 cups					2 cups	2.	Place green beans and dill in a large bowl. Pour pickling liquid over vegetables.						
Dill, fresh					4 tablespoons								
	Dill, ITESII						3.		Marinate for 1-2 h days.	ours or	refrigerate for up to	3	
							cc	CCP: Hold and serve at 41°F or lower.					
NUTRIENTS PER SEI	RVING						•						
Calories	101	Cholesterol (mg)		0	Diet	ary Fiber (g)	1		Vitamin D (mcg)	0	Potassium (mg)	40	
Total Fat (g)	0	Sodium (mg)		290	Add	ed Sugars (g)	1		Iron (mg)	0.2	Vitamin A-RAE (mcg)	7.11	
Saturated Fat (g)	0	Total Carbohydr	ate (g)	3	Prot	tein (g)	0) [Calcium (mg)	10	Vitamin C (mg)	2.49	

Source: Culinary Nutrition Associates LLC

BBQ THREE BEAN SALAD	SERVING SIZE: ½ CUP	
	ONE PORTION PROVIDES: 2 OZ. M/MA EQ. OR ½ CUP BEANS/PEAS/LENTILS	

INGREDIENTS			50 SEI	RVINGS		10 SERVINGS	Dir	ECTIONS					
Beans, black, low drained	w sodi	um, canned,	7 pou	ınds		1 ½ pounds	CCF 1.	CCP : No bare-hand contact with ready-to-eat food 1. Rinse all beans in cold water and drain well.					
Beans, pinto, low drained	w sodi	um, canned,	7 pou	ınds		1 ½ pounds	2.	Combine all beans	in a lar	ge bowl.			
Beans, garbanzo canned, drained		sodium,	7 pou	ınds		1½ pounds							
Yogurt, Greek, p	lain, r	nonfat	2 pou	2 pounds		6 ounces	3.	3. Combine yogurt, BBQ sauce, and lime juice in a bowl.					
Barbecue sauce			12 ounces		2 ounces		Mix well.						
Juice, lime, fresh	4 ounces			1 ounce									
Pepper, black, g	round		2 tea	spoons		½ teaspoon	4.	4. In a small bowl, add black pepper, onion, garlic, chili powder, and cilantro and mix well to comb spices. Add to BBQ yogurt mixture. Stir well.					
Onion, granulate	ed		2 tea	spoons		½ teaspoon							
Garlic, granulate	ed		2 tea	spoons		½ teaspoon							
Dill, dried			2 tea	spoons		½ teaspoon	5.	5. Pour yogurt mixture over beans and lightly tos					
Chili powder			2 tea	spoons		½ teaspoon		combine.					
Cilantro, dried			2 tea	spoons		½ teaspoon	CCF	CCP : Hold and serve at 41°F or lower.					
NUTRIENTS PER SEI	RVING												
Calories	200	Cholesterol (mg)	0	Diet	ary Fiber (g)	11	Vitamin D (mcg)	0	Potassium (mg)	550		
Total Fat (g)	2	Sodium (mg)		330	Add	ed Sugars (g)	2	Iron (mg)	3.2	Vitamin A-RAE (mcg)	2.98		
Saturated Fat (g)	0	Total Carbohydı	ate (g)	34	Prot	tein (g)	12	Calcium (mg)	110	Vitamin C (mg)	3.46		

Source: Danone

ROASTED CHICKPEAS	SERVING SIZE: ¼ CUP	
	ONE PORTION PROVIDES: ¼ CUP BEANS, PEAS, AND	
	LENTILS	

INGREDIENTS		105 Servings	10) SERVINGS		DIRECTIONS						
Chickpeas, canno drained, rins dried well		3 each #10 cans	2 ½	cups	1. Preheat oven to 350°F.							
Oil, canola		1 ½ cup	2 ½	tablespoons 2. Mix oil and the remaining seasonings in a bowl.								
Paprika		2 ½ tablespoons	¾ te	aspoon	3. Add the beans and coat well. Spread them on the sheet pan						pan	
Garlic, granulate	ed	2 tablespoons	¾ te	aspoon	evenly.							
Onion powder		3 tablespoons	1 tea	aspoon	4. Bake for 20 minutes at 350°F. Stir the beans around on the					the		
Black pepper, gr	ound	1 ½ tablespoon	½ te	aspoon		pan and	ba	ake for another 20	0 to 25	minutes until crisp ar	nd	
Salt, kosher		2 teaspoons	¼ te	aspoon		roasted.	В	eans will turn dar	k in col	or and will be crunch	у.	
NUTRIENTS PER SEF	RVING											
Calories	90	Cholesterol (mg)	0	Dietary Fiber ((g)	3	١	Vitamin D (mcg)	0	Potassium (mg)	50	
Total Fat (g)	4.5	Sodium (mg)	120	Added Sugars	(g)	0	I	Iron (mg)	0.4	Vitamin A-RAE (mcg)	4.70	
Saturated Fat (g)	0	Total Carbohydrate (g)	9	9 Protein (g) 3 Calcium (mg) 20 Vitamin C (mg)						0.10		
Yield: about 25 o	cups											

RECIPE NOTES:

- 1 #10 can fit perfectly on a sheet pan.
- Store at room temperature in an air tight container.
- Serve in soufflé cup, or use to top a salad, or serve as a healthy snack.
- If you bake ahead and they are not crisp at time of service, return them back in oven at 400° for 5 minutes to re-crisp.
- Can add cayenne pepper to make them spicy.

SOURCE: adapted from USDA Foods Recipe by Chef Deanna Olson (Crunchy Bonzo Beans), Iowa Department of Education.

https://www.educateiowa.gov/pk-12/nutrition-programs/quick-links-nutrition/learning-tools-nutrition/usda-foods-recipes-chef

Maple Sriracha Baked	SERVING SIZE: 2/3 CUP (#6 SCOOP)
BEANS	ONE PORTION PROVIDES: ½ CUP VEGETABLE

INGREDIENTS			50 SEF	RVINGS		10 SERVINGS	SERVINGS DIRECTIONS						
Chickpeas, cann			2¼ #1	LO cans		2 pounds	1.	1. Preheat oven to 375°F.					
rinsed (10 pounds drained)								. <i>F</i>	Add chickpeas and	d onion	s to a 2-inch full-sized	d	
Onion, diced			1¼ pc	ounds		4 ounces		steam table pan.					
Tomatoes, cann	ed, cr	ushed, no-	24 ou	inces		5 ounces	3.	3. In a separate bowl, whisk together the remaining					
added salt								i	ngredients. Pour	over be	ans and onions and t	toss to	
Maple syrup			16 ou	ınces		3 ounces		coat. 4. Cover and place in the oven for 1 ½ to 2 hours. The liquid should be thickened around the beans. Add more water if needed.					
Sugar, brown			10 ou	inces		2 ounces	4.					s. The	
Sriracha sauce			¼ cup)		1 tablespoon						Add	
Worcestershire	sauce		¼ cup)		1 tablespoon							
Ginger, fresh			¼ cup)		1 tablespoon	CC	CP:	Cook until interna	al temp	erature reaches 135°	°F or	
Stock, vegetable	e, low	sodium	1 qua	rt		1 cup		ov					
							CC	CCP : Hold for hot service at 135°F or higher.					
NUTRIENTS PER SERVING													
Calories	180	Cholesterol (mg)		0	Diet	ary Fiber (g)	6 Vitamin D (mcg) 0 Potassium (mg)				Potassium (mg)	210	
Total Fat (g)	2.5	Sodium (mg)		280	Add	ed Sugars (g)	11	1	Iron (mg)	1.2	Vitamin A-RAE (mcg)	11.61	
Saturated Fat (g)	0	Total Carbohydr	ate (g)	35	Prot	ein (g)	7	7 (Calcium (mg)	60	Vitamin C (mg)	1.91	

SOURCE: USA Pulses

PICKLED WATERMELON RIND Serving Size: n/A USED AS GARNISH DOES NOT CREDIT IN QUANTITIES USED AS GARNISH

INGREDIENTS		50 SERVINGS	10 SERVINGS	DIRECTIONS				
Water		5 quarts	4 cups	1. Bring water and salt to boil over medium-high heat				
Salt, kosher		5 tablespoor	s 1 tablespoon	in a large pot.				
Peeled watermel x 1/2 x 2-inch (Leave a thin layer	•	3 quarts, ½ c	up 2 ½ cups	 Add rind pieces and boil until tender, about 5 minutes. Strain, reserving liquid, and transfer rinds to a large glass or plastic bowl. 				
Sugar, white, gra	nulated	3 ¾ cups	¾ cup	3. Combine the reserved liquid with the remaining				
Vinegar, apple ci	der	2 ½ cups	½ cup	ingredients in a saucepan. Bring to a boil over				
Peppercorns		20 each	4 each	medium-high heat, stirring until sugar dissolves.				
Fresh ginger root	t, long slice	5 each	1 each	Simmer for 15 minutes until slightly reduced. Pour over watermelon rinds in bowl. Place a plate over the top to keep the rinds submerged in liquid. Cove and refrigerate for one day. Transfer to a glass jar and keep sealed in the refrigerator for up to 1 week CCP: Hold and serve at 41°F or lower.				
NUTRIENTS PER SER	VING							
Calories	Cholesterol (mg)	Dietary Fiber (g)	Vitamin D (mcg) Potassium (mg)				
Total Fat (g)	Sodium (mg)		Added Sugars (g)	Iron (mg) Vitamin A-RAE (mcg)				
Saturated Fat (g)	Total Carbohydr	ate (g)	Protein (g)	Calcium (mg) Vitamin C (mg)				

Source: The National Watermelon Promotion Board, Adapted from https://www.watermelon.org/recipes/watermelon-rind-pickles/

PRODUCT EVALUATION FOR COOKING VEGETABLES FOR GREATER APPEAL

Participants evaluate each food product as part of the tasting in this culinary laboratory. For each food product (row) and each evaluation category (column), circle either **A** (acceptable) or **NA** (not acceptable).

Food Product	Appearance	Taste	Texture	Eating	Comments
	1.			Quality	
Broccoli Salad	A or NA	A or NA	A or NA	A or NA	
Ranch-Roasted Broccoli	A or NA	A or NA	A or NA	A or NA	
Lemon Zest Broccoli	A or NA	A or NA	A or NA	A or NA	
Dilly Cukes					
Cauliflower Salad	A or NA	A or NA	A or NA	A or NA	
Roasted Cauliflower with	A or NA	A or NA	A or NA	A or NA	
Turmeric					
Steamed Cauliflower/Buffalo	A or NA	A or NA	A or NA	A or NA	
Sauce					
Banh Mi Pickled Vegetables					
Moroccan Carrot Salad	A or NA	A or NA	A or NA	A or NA	
Lemon-Roasted Carrots	A or NA	A or NA	A or NA	A or NA	
Orange-Glazed Carrots	A or NA	A or NA	A or NA	A or NA	
Pickled Spicy Carrots					
Butternut Squash Soup	A or NA	A or NA	A or NA	A or NA	
Roasted Butternut Squash	A or NA	A or NA	A or NA	A or NA	
Mashed Butternut Squash	A or NA	A or NA	A or NA	A or NA	
Giardiniera					
Zucchini Fries	A or NA	A or NA	A or NA	A or NA	
Roasted Summer Squash	A or NA	A or NA	A or NA	A or NA	
Zucchini Parmesan	A or NA	A or NA	A or NA	A or NA	
Turmeric Zucchini					
Edamame and Corn Salad	A or NA	A or NA	A or NA	A or NA	
Esquites	A or NA	A or NA	A or NA	A or NA	
Corn Pudding	A or NA	A or NA	A or NA	A or NA	
Pickled Jalapeno					
Green Beans with Almonds	A or NA	A or NA	A or NA	A or NA	
Sesame-Roasted Green Beans	A or NA	A or NA	A or NA	A or NA	
Pizza Green Beans	A or NA	A or NA	A or NA	A or NA	
Dilly Green Beans					
BBQ Bean Salad	A or NA	A or NA	A or NA	A or NA	
Roasted Chickpeas	A or NA	A or NA	A or NA	A or NA	
Maple Sriracha Baked Beans	A or NA	A or NA	A or NA	A or NA	
Pickled Watermelon Rind					

Day Three Scratch Baking Principals and Techniques

LESSON-AT-A-GLANCE

Culinary demonstration	Introduction to Baking Principals and	60 minutes
	Techniques	
	Team Assignments	
	Timeline	
Hands-on		3 1/2 hours
Evaluation and		15 minutes
discussion		
Clean-up		15 minutes

TEAM ASSIGNMENTS

Team	Yeast Bread	Biscuit	Quick Bread
Team 1	Oatmeal Sandwich	Biscuit	Apple Quick Bread
Team 2	French Bread	Biscuit	Banana Quick Bread
Team 3	Oatmeal Sandwich	Biscuit	Apple Quick Bread with Blueberries
Team 4	French Bread	Biscuit	Banana Quick Bread with Dates
Team 5	Oatmeal Sandwich	Biscuit	Apple Quick Bread with Dried
			Cranberries
Team 6	French Bread	Biscuit	Banana Bread with Chocolate Chips
Team 7	Oatmeal Sandwich	Biscuit	Apple Quick Bread
Team 8	French Bread	Biscuit	Banana Quick Bread with Blueberries

HANDS-ON TIMELINE

- **9:00 AM** Mix yeast bread dough. Teams may use warmer water to demonstrate how water temperature affects proofing.
- **9:30 AM** Yeast bread begins proofing. All teams prepare biscuit dough together.
- **10:00 AM** Scale ingredients for quick breads. Fold yeast bread dough and continue proofing as required.
- **10:15 AM** Finish shaping and baking biscuits.
- 10:30 AM Mix and portion quick bread batters.
- 10:40 AM Remove biscuits from the oven and allow them to cool.
- 11:00 AM Place quick breads in the oven.
- 11:05 AM Divide yeast doughs, pre-shape, and let them rest.
- 11:20 AM Perform the final shaping of yeast bread. Allow to proof and bake.
- 12:00-12:15 PM Breads are cool enough to slice and use for lunch sandwiches.

APPLE QUICK BREAD

SERVING SIZE: 1 SLICE, 10 EACH FROM 1 LOAF

ONE PORTION PROVIDES: 1.75 oz. eq. grain

INGREDIENTS			50 SERVINGS, 5	LOAVES	20 SERVING	GS , 2 LOA	VES			DIRECT	IONS		
Oil, vegetable			900 g		360 g		1. He	Heat the oven to 350°F.					
Sugar, white, gr	anulat	ed	500 g		200 g			2. W	Vhisk the oil, sugar, eggs, applesauce,				
Eggs, large			8 each		3 each cinnamon and nutmeg.			meg.					
Applesauce, car	nned,		1,375 g		550 g			3. Si	ft the dry ing	redients.			
unsweetene	ed												
Cinnamon			45 g 15 g					4. G	ently combin	e the dry	ingredients with t	he	
Nutmeg			12.5 g 5 g					W	et until you o	only see a	few streaks of floo	ur.	
Salt, Kosher			3 ¼ teaspoons		1 ½ teaspo	ons		5. Fold in the apple.					
Baking Powder			2 tablespoons	ons, 1 ½ 1 tablespoon 6. Bake in prepared 9 x 5				ed 9 x 5 l	9 x 5 loaf pans for 52-60				
			teaspoons				m	minutes or until a toothpick comes out clean.					
Whole wheat fl	our, w	hite	1,000 g		400 g								
Whole wheat fl	our		450 g		180 g								
Apple, cored, sr	nall di	ced	800 g		320 g								
NUTRIENTS PER SERVI	NG												
Calories	330	Cholestero	l (mg)	30	Dietary Fibe	r (g)		4 Vit	tamin D (mcg)	0.2	Potassium (mg)	160	
Total Fat (g)	20	Sodium (m	g)	330	Added Sugar	rs (g)		10 Iro	on (mg)	1.4	Vitamin A (RAE)	13.85	
Saturated Fat (g)	3	Total Carbo	ohydrate (g)	38				5 Ca	lcium (mg)	70	Vitamin C (mg)	1.05	
Blueberry 50 servi	ngs		Blueberry 20 se	rvings	Dry Cranberry			y 50 servings		Dry Cra	Dry Cranberry 20 servings		
Replace 448 grams	of cho	ped apple	Replace 320 gra	ms of cho	pped apple Replace 140 grams of cl			chopped apple	Replace	100 grams of chopped	d apple		
with blueberries, fresh or frozen with blueberries, fresh or			frozen with dry cranberries				with dry cranberries						

Day 3

			Day 3				
Biscuit	SERVIN	IG SIZE: 1 BISCUIT					
	eq. grain						
Ingredients	45 SERVINGS	9 Servings	DIRECTIONS				
Whole wheat flour, white	900 g	180 g	7. Preheat the oven to 375°F.				
Whole wheat flour	300 g	60 g 8. Sift all the dry ingredients.					
Salt, Kosher	3 ¼ teaspoons	¾ teaspoon	9. Cut the butter and shortening into the dough				

INGREDIENTS			45 3ERV	INGS	9 SERVINGS	DIRECTIONS				
Whole wheat fl	our, w	hite	900 g		180 g	7. Preheat the oven to 375°F.				
Whole wheat fl	our		300 g		60 g	8. Sift all the dry ingredients.				
Salt, Kosher			3 ¾ teasp	oons	¾ teaspoon	9. Cut the butter and shortening into the dough				ugh
Baking Powder			¼ cup		2 ½ teaspoons	until the butter is not larger than a din				
						10). Whisk the egg	and milk	together.	
Butter, unsalted	d, cold		515 g		103 g	11	Add the wet t	o the dry	ingredients.	
Egg, large, cold			5 each		1 each	12	. Form a soft do	ough.		
Milk, whole, co	ld		565 g		113 g	13. Knead gently by hand to bring together all the				ll the
						dry flour.				
						14	_	n into a re	ectangle shape, ab	out ½
						inch thick.				
						15. Chill the dough for 15 minutes.				
						16	6. Remove from	the freez	er and fold the do	ugh in
							thirds (like a le	etter).		
						17	'. Roll the dough	n to ¾" th	ick.	
						18	3. Use the bench	scraper	to create sharp co	rners.
						19	. Freeze for 20	minutes t	to 1 hour.	
						20. Cut into 9 pieces, squares.				
						21. Bake for approximately 16 minutes.				
NUTRIENTS PER SERVI	NG									
Calories	190	Cholesterol (m	g)	40	Dietary Fiber (g)	3	Vitamin D (mcg)	0.2	Potassium (mg)	120
Total Fat (g)	11	Sodium (mg)		270	Added Sugars (g)	0	Iron (mg)	1.2	Vitamin A (RAE)	89.43
Saturated Fat (g)	6	Total Carbohyo	Irate (g)	20	Protein (g)	4	Calcium (mg)	100	Vitamin C (mg)	0

Calories 190 Cholesterol (mg) 40 Dietary Fiber (g) 3 Vitamin D (mcg) 0.2 Potassiu	um (mg) 120
Total Fat (g) 11 Sodium (mg) 270 Added Sugars (g) 0 Iron (mg) 1.2 Vitamin	A (RAE) 89.43
Saturated Fat (g) 6 Total Carbohydrate (g) 20 Protein (g) 4 Calcium (mg) 100 Vitamin	C (mg) 0

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SERVING SIZE: 1.5 OZ

ONE PORTION PROVIDES: 2.25 oz. eq. grain

INGREDIENTS		50 SERVING	is	25 SERVINGS				DIRECT	TIONS	
Flour, bread, white, e	nriched	20 ounces		10 ounces		22. Add the water and all other liquid ingredients to				s to
Whole wheat flour, w	hite	20 ounces		10 ounces		the bowl.				
Whole wheat flour		24 ounces		12 ounces		23. Combir	ne the d	ry ingredie	ents and mix to comb	bine.
Yeast, instant		0.26 ounces (i.e.,	, 1	0.13 ounces (i.e.,1 ½		24. Add the	e dry to	the wet.		
		tablespoon)		teaspoons)						
Non-fat Milk Powder		2 ounces		1 ounces						
Honey		4 ounces		2 ounces		25. Mix for	2 minu	tes at the	lowest speed.	
Oil, vegetable		4 ounces		2 ounces		26. Mix for	4 minu	tes on me	dium.	
Water, 74°F		1 pound, 12.8 c	unces	1 pound, 6.4 ounces	S	27. Mix for	2 minu	tes on hig	h.	
Salt, Kosher		1.2 ounces (i.e.	, 2	0.6 ounce (i.e., 1		28. Scrap t	he doug	h out of tl	ne bowl and coat it i	n a
		tablespoons)	•	tablespoon)		•		(very thir	n).	
		. ,		,		29. Rest fo				
						30. Fold th	•			
						31. Rest fo				
						32. Divide	•		•	
						33. Gently		•	g cylinder.	
						34. Rest fo	_			
						35. Shape i		•		
									80 F with 80% humid	ity.
						37. Score v	_	•		
									n, or spray the loaves	s with
							efore b	_		
								intii an in	stant-read thermom	eter
NUTRIENTS PER SERVING						reache	5 ZUU F.			
Calories 140	0 Chol	esterol (mg)	0	Dietary Fiber (g)		3 Vitamin I) (mcg)	0.1	Potassium (mg)	130
		um (mg)	270	Added Sugars (g)		0 Iron (mg)		1.4	Vitamin A (RAE)	8.11
		l Carbohydrate (g)	29	Protein (g)		5 Calcium		20	Vitamin C (mg)	0.44

OATS AND BANANA BREAD

SERVING SIZE: 1 SLICE, 8 PER LOAF

ONE PORTION PROVIDES: 2 oz. eq. grain

			•						1				
INGREDIENTS		40 Servings			NGS	8 SE	RVINGS		DIRECTIONS				
Butter, unsalted	t		1 pour	nd, 4 4 ounces				1. Pre	 Preheat the oven to 350°F. 				
			ounce	S					2. Gre	ase a 9 x 5	loaf pan.		
Whole wheat fl	our, w	/hite	6 ¼ cu	ps		1 ¼ cups			3. Mix	together	all the dry	ingredients.	
Oat Flour			3 ¾ cu	ps		¾ cup			4. Cre	am the bu	tter and th	ne sugar, and add	the
Salt, Kosher			5 teas	poor	ns	1 teaspoo	n		egg	s, banana,	and vanil	la.	
Baking powder			2 table	espo	ons,	1½ teasp	oons		5. Cor	nbine the	wet ingred	dients with the di	y, and
			1 ½ tea	aspc	oons				mix	gently. Th	ere will be	e lumps.	
Sugar, white, gr	anula	ted	2 ½ cu	ps		½ cup			6. Add	the raisin	s and coco	onut.	
Brown sugar, pa	acked		1 ¼ cu	ps		¼ cup			7. Bak	e for 45-60	0 minutes		
Eggs, large			10 eac	:h		2 each							
Bananas, ripe, r	nashe	d	15 eac	:h		3 each							
Extract, vanilla			5 teas	poons 1 teaspoon		n							
Golden Raisins			2 ½ cu	ps ½ cup									
Dried Grated U	nswee	etened	2 ½ cu	ups ½ cup									
Coconut													
NUTRIENTS PER SERVI	NG												
Calories	410	Cholesterol (m	g)		75	Dietary Fibe	, ,			nin D (mcg)		Potassium (mg)	390
Total Fat (g)	18	Sodium (mg)			310	Added Suga	rs (g)	:	19 Iron	<u> </u>		Vitamin A (RAE)	118.42
Saturated Fat (g)	11	Total Carbohyo	drate (g)		62	Protein (g)	1			ım (mg)		Vitamin C (mg)	4.14
Blueberry: 8 serv	/ings	Blueberry: 40		Dat	te: 8 ser	vings	Date: 4	0 serv	ings	Chocolate	e Chip: 8	Chocolate Chip	o: 40
servings									servings		servings		
Replace the ½ cup of Replace the 2 !					e ½ cup of			½ cups		he ½ cup of			
golden raisins with 6 of golden raising					sins with ¾ of golden ra				_	golden raisins with $lac{1}{2} \mid$ of golden rai			
ounces of frozen	-	1 pound, 14 or		cup	o of cho	pped dates		s of cl	chopped cup of		plate chips	2 ½ cups of cho	ocolate
fresh blueberries	i	of frozen or fro blueberries	esh				dates					chips	

OATMEAL SANDWICH BREAD

SERVING SIZE: 1 SLICE

ONE PORTION PROVIDES: 1.5 oz. eq. grain

INGREDIENTS		50 Servings		25 Servings			DIRECTION	NS	
Oats, rolled, old-fashio	oned,	10.6 ounces		5.3 ounces	8. Place the oats in the mixing bowl with the water t soften for 10 minutes.				er to
Water, tap		2 pound, 8 ounc	es	1 pound, 4 ounces					
Flour, bread, enriched		1 pound, 8 ounc	es	12 ounces	9. Add	all of the rest of	of the ing	gredients to the bo	wl.
Whole wheat flour, w	hite	1 pound, 8 ounc	es	12 ounces	10. Mix	on low for 2 m	inutes.		
Whole wheat flour		1 pound		8 ounces	11. Mix	on medium for	4 minut	es.	
					12. Mix	on high for 4 m	ninutes.		
						ow the dough to n film of oil for 1		covered bowl with	n a
					14. Fol	d the dough.			
Milk, whole		7 ounces		3.5 ounces	15. Allow to rest for 1 more hour.				
Honey		4.8 ounces		2.4 ounces	16. Divide the dough into 945 g pieces.				
Oil, vegetable		4.8 ounces		2.4 ounces	17. Loo	sely roll into ob	long cyli	nders.	
Salt, Kosher		1.4 ounces (i.e.,	1	0.7 ounces (i.e., 3 ½	18. Res	t for 15 minutes	S.		
		tablespoon, 1		teaspoons)	19. Sha	pe the dough in	ito tight	loaf pan cylinders.	
		teaspoon)							
Yeast, instant		0.36 ounces (i.e.	, 1	0.18 ounces (i.e., 1 ½	13. Allo	ow the dough to	proof fo	or 35 minutes at 80	°F,
		tablespoon)		teaspoons	80% hւ	ımidity.			
					14. Bake at 420°F for 30-40 minutes or until the				
					internal temperature is 200°F.				
NUTRIENTS PER SERVING					_				
Calories 190		terol (mg)	0	Dietary Fiber (g)	3	Vitamin D (mcg)	0.1	Potassium (mg)	130
Total Fat (g) 4	Sodium	, ,,	310	Added Sugars (g)	2	Iron (mg)	1.7	Vitamin A (RAE)	1.88
Saturated Fat (g) 0.5	Total C	arbohydrate (g)	33	Protein (g)	6 Calcium (mg) 20 Vitamin C (mg) 0.0				0.01

PRODUCT EVALUATION FOR CULINARY BASICS

Participants evaluate each food product as part of the tasting in this culinary laboratory. For each food product (row) and each evaluation category (column), circle either **A** (acceptable) or **NA** (not acceptable).

Food Product	Appearance	Taste	Texture	Eating Quality	Comments
Apple Quick Bread (and variations)	A or NA	A or NA	A or NA	A or NA	
Biscuit	A or NA	A or NA	A or NA	A or NA	
French Bread	A or NA	A or NA	A or NA	A or NA	
Oats and Banana Bread (and variations)	A or NA	A or NA	A or NA	A or NA	
Oatmeal Sandwich Bread	A or NA	A or NA	A or NA	A or NA	

Cooking for Healthy Kids 89 Weights & Measures



Kitchen Matters

Nutrition Matters

WEIGHTS AND MEASURES

In foodservice operations, weights and measures are essential components to producing high-quality meals. All recipes require a basic understanding of the different units, the purpose of measuring tools, and the right techniques for measurement. Sometimes, recipes also require conversions or alterations. Because of this, math skills are essential for working in the kitchen.

WEIGHT VS. VOLUME

There are many forms of measurement, such as weight, time, speed, and volume. Each of these forms has a distinct purpose and unit of measure. Weight and volume are two types of measurements that are often confused.

Weight is the measure of an items mass. In foodservice, the most common units of weight are ounces and pounds.

Volume is the measure of the amount of space an item takes up. There are seven units of volume, including teaspoon, tablespoon, fluid ounce, cup, pint, quart, and gallon.

To highlight the difference between weight and volume, consider this age-old question; what weighs more, a pound of bricks or a pound of feathers?







Both the bricks and the feathers have an equal weight—one pound. However, the items have very different volumes because they take up different amounts of space. The amount of feathers needed to weigh one pound is much more than the amount of bricks needed. Due to this, weight is regarded as the more accurate measurement for solid ingredients weighing more than two ounces. Liquid ingredients, on the other hand, are usually best measured with volume.

The importance of weight and volume can be further demonstrated by that 1 ¼ cups of flour mentioned earlier. Flour is a solid ingredient that's best measured by weight. If the flour is measured using a volume measuring cup though, the quantity can vary greatly from person to person, even when the same cup is used. Factors that alter quantity:

- If it was spooned in or scooped in with the measuring cup
- If it was packed down into the cup
- If it was leveled off with a straight edge

Even small differences in quantity can make a big difference in a recipe's result. Essentially, using the correct measuring tools and techniques matters. That's not to suggest that a small portion of flour must always be weighed on a scale. Nevertheless, ensuring that all ingredients are measured with the correct method will greatly improve the quality of food.

MEASURING TOOLS AND TECHNIQUES

There are different measuring tools created for different purposes. Here are the most common tools used within foodservice operations:



Scales measure weight. They are the most accurate way to measure dry ingredients but can also be used for some liquid ingredients as well.





Measuring cups and **measuring spoons** measure volume. They are best used for liquid ingredients but can be used for small quantities of dry ingredients too.



Scoops measure volume. The scoop number equals the average number of scoops in a quart

For graduated dry and liquid ingredients, the standard sizes are: 1 quart, 1 pint, 2 quarts, 1 gallon. Since weight is the best measure for dry ingredients, these units are generally not used for quantities greater than 1 quart. Nonetheless, there are variations for tools depending on their intended use, and it's important to understand these differences.





Liquid measures will have a curved lip above the spill line to prevent spilling.

Dry measures have a straight rim to level off any ingredient.

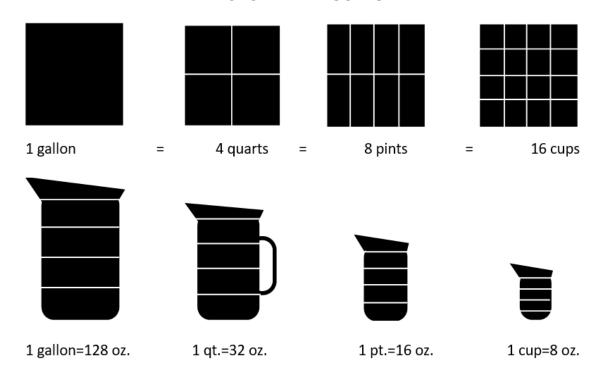
Another important distinction is between ounces and fluid ounces. An ounce is a measure of weight, while a fluid ounce is a measure of volume. Any ingredient labeled with ounces will not equal the same quantity of that ingredient in fluid ounces, as liquid weights may vary. When it comes to measuring ingredients, the right technique is key. Even if you use the correct tool for the job, the wrong use of that tool will result in inconsistent results when following a recipe. To ensure all ingredients are measured correctly:

- Lightly spoon dry ingredients into a measuring cup. Level off the top by using a flat-edged utensil such as a knife or a metal spatula. Avoid tapping or shaking the measuring container; this will pack the ingredient and lead to inaccurate quantities.
 - An exception to this rule is brown sugar. Typically, this ingredient should be firmly packed into a measuring cup, although the recipe should specify what to do.
- Use a scale whenever possible to measure dry ingredients. If one is not available, use the largest instrument possible to increase accuracy. For instance, measuring four cups of flour using a one-quart container is better than using a four-cup container four different times. Every time the flour is spooned into the cup, it increases the chance of human error.
- Checking the amount of liquid in a measuring cup by sitting it steady on the
 counter and looking at the meniscus. The meniscus is the natural upward or
 downward curve seen at the top of the liquid. To do this, examine the container
 at eye level and determine if the meniscus is at the desired unit. This will produce
 the most accurate results for your recipe.
- If possible, measure all ingredients before starting the recipe to increase efficiency and decrease the chance of error.

PORTIONING

How food is portioned will directly relate to the yield of a recipe. Most often, scoops are used for portioning. Selecting the right scoop size and following the right technique is essential whenever serving food. If you over portion, you will run out of food too quickly. If you under portion, you'll be left with excessive leftovers. Incorrect portioning doesn't only affect the operation's bottom line. It can also negatively impact consumers. If one kid gets a heaping serving of food while another gets a tiny serving, you will have very unsatisfied students on your hands. To avoid this issue, use instruments that measure both weight and volume, and remember the right techniques for accurate measure.

VOLUME MEASURES



WEIGHTS AND MEASURES EQUIVALENCIES

dash	 less than 1/8 teaspoon
3 teaspoons (tsp.)	 1 Tablespoon (1/2 fl. oz.)
2 Tablespoons (Tbsp.)	 1/8 cup (1 fl. oz.)
4 Tablespoons	 1/4 cup (2 fl. oz.)
8 Tablespoons	 1/2 cup (4 fl. oz.)
16 Tablespoons	 1 cup (8 fl. oz.)
1 gill	 1/2 cup
2 cups	 1 pint
2 pints	 1 quart (approx. 1 liter)
4 quarts	 1 gallon
8 quarts	 1 peck
4 pecks	 1 bushel

SCOOPS

The number on the scoop indicates how many level scoops make one quart.

Scoop Number	Measure	Weight in Fluid Ounces	Scoops per Cup
4	1 cup	8 fl. oz.	1
5	3/4 cup	6.4 fl. oz.	1.25
6	2/3 cup	5.3 fl. oz.	1.5
8	1/2 cup	4 fl. oz.	2
10	3/8 cup	3.2 fl. oz.	2.5
12	1/3 cup	2.6 fl. oz.	3
16	1/4 cup	2 fl. oz.	4
20	3 1/3 tablespoons	1.6 fl. oz.	5
24	8 teaspoons	1.33 fl. oz.	6
30	2 tablespoons	1 fl. oz.	7.5
40	1 2/3 tablespoons	.75 fl. oz.	10
50	3 3/4 teaspoons	.64 fl. oz.	12.5
60	1 tablespoon	.5 fl. oz.	15
70	2 3/4 teaspoons	.45 fl. oz.	17.5
100	2 teaspoons	.32 fl. oz.	25

LADLES

Ladles are labeled "oz." "fl oz.", fluid	Ladle	Approx. measure	
ounce, would be more accurate since they measure volume, not weight.	1 fl. oz.	1/8 cup	
	2 fl. oz.	1/4 cup	
	3 fl. oz.	3/8 cup	
	4 fl. oz.	1/2 cup	
	6 fl. oz.	3/4 cup	
	8 fl. oz.	1 cup	
	12 oz.	1 1/2 cups	

HOTEL OR STEAMTABLE PAN CAPACITY

Pan Size		• •	mate Pan ity Full	Approximate Pan Capacity 85 Percent		
		Quarts	Cups	Quarts	Cups	
Full Size	12" x 20" x 2 1/2"	8 1/4	33	7	28	
	4"	14	56	12	48	
	6"	21	84	18	72	
Half Pan	12" x 10" x 2 1/2"	4	16	3 1/2	14	
	4"	6 1/2	26	5 1/2	22	
	6"	9 1/2	38	8	32	
Third size	12' x 6" x 2 1/2"	2 2/5	9 3/5	2	8	
	4"	3 7/8	15 1/2	3 1/4	13	
	6"	6	24	5	20 1/2	
Fourth size	10' x 6" x 2 1/2"	1 7/8	7 1/2	1 1/2	6 3/8	
	4"	3	12	2 1/2	10	
	6"	4 1/2	18 1/4	3 7/8	15 1/2	
Sixth size	6' x 6" x 2 1/2	1 1/4	5	1	4 1/4	
	4"	1 7/8	7 1/2	1 1/2	6 3/8	
	6"	2 3/4	11	2 1/3	9 1/3	

DIETARY GUIDELINES FOR AMERICANS 2020-2025

The Dietary Guidelines has been the cornerstone of federal nutrition guidance since the 1980s, when the first set of recommendations were released. Its development plays a central role in shaping federal policies and programs related to food, nutrition, and health. Though the Dietary Guidelines aim to help individuals reduce their risk of chronic diet-related disease, they are not written for consumers directly.

The Dietary Guidelines for Americans are written for policymakers, nutrition educators, and health professionals. They support the development of science-based nutrition policy, nutrition education messages, and consumer materials for the public. The 2020-2025 guidelines focus on making every bite count at every stage of life. Four overarching guidelines exist to support this central theme.

- 1. Follow a healthy eating pattern across the lifespan. All food and beverage choices matter, not just individual meals. Following a healthful eating pattern at an appropriate calorie level will help to achieve and maintain a healthy body weight, support nutrient adequacy, and reduce the risk of chronic diseases. The life stages are divided into infancy, toddlerhood, childhood, adolescence, adulthood, pregnancy, lactation, and older adulthood. Each of these periods requires a unique number of calories, vitamins, and minerals to thrive. A clear sign of a healthy dietary pattern is the inclusion of several nutrient-dense foods. Nutrient-dense foods are items that offer a higher number of vitamins and minerals for the number of calories they provide. Even small efforts towards nutrient-density add up. For example, swapping just one snack a day will make a big difference to overall diet quality over the course of weeks and months.
- 2. Customize and enjoy food and beverage choices. All individuals—regardless of age, socioeconomic status, and racial/ethnic background—can reap the benefits of a healthy dietary pattern. When people customize their food choices, they're enabled to follow an eating plan that works best for their unique lives. Customizing dietary guidelines begins with personal preferences. Eating should be enjoyable, and people will be more willing to improve their diet when the food is appetizing. Budget and cultural traditions also play a role. A nutritious dietary pattern does not need to be expensive, and there are endless options for meals that are both culturally diverse and healthy.

To create a personalized, balanced eating plan, select a variety of nutrient-dense foods across and within the five main food groups. Every food group contains several items, such as:

- Vegetables:
 - o Dark-green leafy: broccoli, chard, collards, kale, spinach

- Red and orange: carrots, sweet potatoes, red/yellow bell peppers
- o Beans, peas, and lentils: black beans, black-eyed peas, lima beans
- Starchy: corn, jicama, plantains, white potatoes, yams
- **Fruits:** While whole fruits have the best nutritional value, fresh, frozen, canned, dried, and 100% fruit juices are each a part of this group.
- **Grains:** with the goal to make half as whole grains:
 - Whole grains: brown rice, buckwheat, oats, popcorn, whole grain cereal
 - Refined grains: white breads, cream of wheat, and refined-grain cereals
- **Dairy and Fortified Soy Alternatives**: Can also be lactose-free or lactose-reduced products if needed

Protein Foods:

- Meat, poultry, eggs: beef, pork, chicken, turkey, and lamb.
- o Seafood: catfish, cod, crab, salmon, sardine, shrimp, and anchovy.
- Nuts, seeds, soy: tree nuts, peanuts, nut butters, tofu, and pumpkin seeds.

Food Group	Recommended amount in the 2000
-	Calorie Pattern
Vegetables	2 ½ cup-equivalents/day
Dark Green	1 ½ cup-equivalents/week
Red & Orange	5 ½ cup-equivalents/week
Legumes (Beans & Peas)	1 ½ cup-equivalents/week
Starchy	5 cup-equivalents/week
Other	4 cup-equivalents/week
Fruits	2 cup-equivalents/day
Grains	6 ounce-equivalents/day
Whole Grains	More than 3 ounce-equivalents/day
Refined Grains	Less than 3 ounce-equivalents/day
Dairy	3 cups/day
Protein Foods	5 ½ ounce-equivalents/day
Seafood	8 ounce-equivalents/week
Meats, Poultry, Eggs	26 ounce-equivalents/week
Nuts, Seeds Soy Products	5 ounce-equivalents/week
Oils	27 grams per day
Limit on Calories for Other Uses (% of Calories)	270 calories/day (14%)

- **3. Focus on meeting food group needs and stay within calorie limits.** While items from each food group are needed to make up a healthy dietary pattern, calories are also important. Identifying and preparing foods so they provide the appropriate amount of energy should be considered at each life stage.
 - Generally, foods are at their most appropriate calorie level when they have the least number of added sugars and saturated fats. People can easily make more nutritious selections by consuming foods in their most nutrient dense form.

Food Group	Recommendation
Vegetables	Reduce the use of added salt, butter, and creamy sauces.
	Add them to dishes like burgers, tacos, pizzas, and stews.
Fruits	Offer a variety of whole, fresh fruits in season.
Grains	At least half of all grains should be whole grains.
	Swap refined ("white") grains for whole grains.
Dairy	Fat-free and low-fat dairy products are the best.
	Try adding fat-free or low-fat milk with breakfasts or snacks.
Protein	If serving meat, aim for lean forms (chicken breast or ground turkey)
	over the more processed forms (hot dogs or ham).

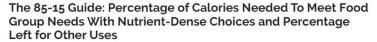
Some foods do not fit easily into the five main groups. However, these foods can be included in a healthy dietary pattern and include:

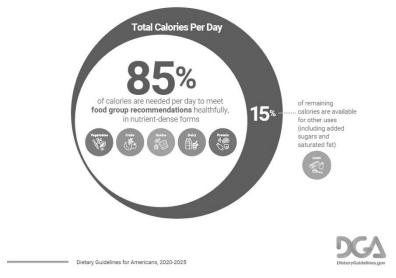
- Oils -They provide essential fatty acids to the diet. Popular varieties include canola, corn, olive, and soybean. Cooking with oils instead of fats like butter, shortening, or coconut oil will make diets more nutritious.
- Beverages The best beverages are the ones with the least number of sweeteners and cream. Water, 100% juice, and fat-free and low-fat milk are the staples of a healthy eating pattern.
- Caffeine This dietary component is not an essential nutrient but is regarded as safe when consumed by healthy adults in appropriate quantities.

4. Limit food and beverages higher in added sugars, saturated fat, and sodium.

The Dietary Guidelines emphasize including more nutrient-dense foods while limiting other foods. Added sugars, saturated fats, and sodium do not provide essential vitamins or minerals and they can contribute to chronic disease risk when consumed in excess.

Just because some foods are more nutritious than others though, does not mean that people can never eat sugar, saturated fat, or sodium. The 2020-2025 guidelines note that about 15% of daily calories are available for the use of food choices that are not nutrient-dense.





Nevertheless, key recommendations exist to help people make appropriate selections regarding how much of these foods to consume.

- Added Sugars: Limit to less than 10% of total calories daily. Added sugars are added to foods as they're processed or prepared. They add calories without other nutritional value. (Natural sugars—in fruits, vegetables, and milk—are not added sugars.)
- **Saturated & Trans Fats:** For those older than two, limit saturated fats to less than 10% of total calories daily. Replace them with unsaturated fats like plant oils, avocados, nuts, seeds.
 - Diets high in saturated and trans fats are associated with heart disease. The most common forms of saturated fats include butter, whole milk, and meats that aren't labeled lean. Small amounts of trans fats occur naturally in some animal-based foods. As of 2018, artificial trans fats are no longer added to processed foods.
- **Sodium:** Limit to less than 2,300 mg daily. While sodium does not contain calories, eating patterns that are high in sodium are associated with high blood pressure and heart disease. Common sources of sodium include canned foods, rice mixed dishes, and processed meats.

Principles of Healthy Eating Patterns

In addition to the overarching guidelines, the USDA highlights three major principles for any healthy eating pattern.

1. Meet nutritional needs primarily from foods and beverages

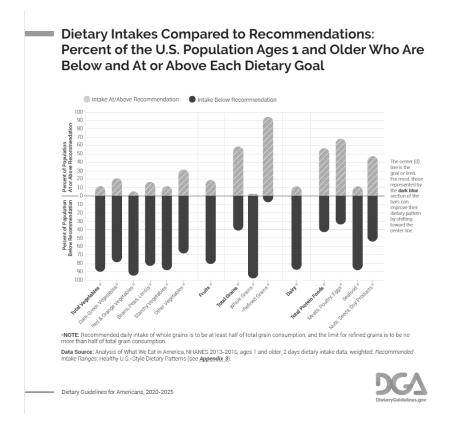
• Fortified foods and beverages can sometimes be used to meet the recommendations for vitamins and minerals. However, it is always best to maximize nutrition through whole, nutrient-dense foods.

2. Choose a variety of nutrients from each food group

- Serving an array of foods from each meal component will improve the overall nutritional value of the menu
- Variety looks like different categories and types of products. Fresh, frozen, canned, and dried products all have a place in a healthful dietary pattern.

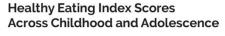
3. Pay attention to portion size

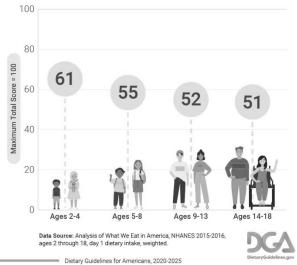
 Refer to the serving size on the Nutrition Facts Label for the recommended amount to be consumed in one sitting. Consuming the appropriate portions will ensure that meals are dishing up the right number of calories and other essential nutrients.



Children and Adolescents

The Dietary Guidelines for Americans were created to reach individuals at all stages of life. When serving people within certain age groups, its beneficial to think about their unique nutritional needs. The children and adolescent life stage includes anyone between the ages of two and 18. During this stage, lifelong habits are set. As such, school foodservice operations can play a major role in establishing healthful dietary patterns.





The most recent data suggests that children and adolescents are not

consuming enough nutrient-dense foods. At the same time, they're overconsuming added sugar, saturated fat, and sodium. Recommendations for improving children and adolescent eating patterns are to:

- Maintain the common dietary components of early childhood (total fruit and dairy) while increasing the components that are under consumed (total vegetables, whole grains, and seafood)
- Decrease the number of sugar-sweetened beverages consumed, which are not necessary in the diets of children and adolescents.
- Select high-quality dairy products, such as unsweetened fat-free and low-fat milk, yogurt, cheese, and fortified soy beverages
- Focus on optimal protein intake during the adolescent years. Recognize that adolescent females are the most likely to experience nutritional inadequacies.

When children and adolescents are exposed to an array of nutrient-dense foods in all the essential food groups, they are more likely to continue making healthy choices in the future. School is one of the central settings that can make a positive impact on their students' wellness. For example, schools can work to:

- Improve the selection and variety of healthy foods served in cafeterias and vending machines
- Provide nutrition education programs, educational material, and school gardens
- Promote school-based physical activity

SCHOOL BREAKFAST PROGRAM MEAL PATTERN AS OF JULY 1, 2024

Amount of Food¹ per Week (minimum per day)

Meal Components	Grades K-5	Grades 6-8	Grades 9-12
Fruits (cups) ²	5 (1)	5 (1)	5 (1)
Vegetables (cups) ²	0	0	0
Dark green subgroup	0	0	0
Red/orange subgroup	0	0	0
Beans, peas, and lentils subgroup	0	0	0
Starchy subgroup	0	0	0
Other vegetables subgroup	0	0	0
Grains or meats/meat alternates (oz. eq.) 3	7–10 (1)	8–10 (1)	9–10 (1)
Fluid milk (cups) ⁴	5 (1)	5 (1)	5 (1)

Daily Amount Based on the Average for a 5-Day Week5

Dietary Specifications	Grades K-5	Grades 6-8	Grades 9-12
Minimum-maximum calories (kcal)	350–500	400–550	450–600
Saturated fat (% of total calories)	< 10	< 10	< 10
Added sugars (% of total calories) - must be implemented by July 1, 2027	< 10	< 10	< 10
Sodium limit - in place through June 30, 2027	<u><</u> 540 mg	<u><</u> 600 mg	<u><</u> 640 mg
Sodium limit - must be implemented by July 1, 2027	<u><</u> 485 mg	<u><</u> 535 mg	<u><</u> 570 mg

ENDNOTES

¹ Food items included in each group and subgroup and amount equivalents.

² Minimum creditable serving is 1/8 cup. Schools must offer 1 cup of fruit daily and 5 cups of fruit weekly. Schools may substitute vegetables for fruit at breakfast as described in paragraphs (c)(2)(i) and (ii) of this section.

³ Minimum creditable serving is 0.25 oz. eq. School may offer grains, meats/meat alternates, or a combination of both to meet the daily and weekly ounce equivalents for this combined component. At least 80 percent of grains offered weekly at breakfast must be whole grain-rich as defined in § 210.2 of this chapter, and the remaining grain items offered must be enriched.

⁴ Minimum creditable serving is 8 fluid ounces. All fluid milk must be fat-free (skim) or low-fat (1 percent fat or less) and must meet the requirements in paragraph (d) of this section.

⁵ By July 1, 2027, schools must meet the dietary specification for added sugars. Schools must meet the sodium limits by the dates specified in this chart. Discretionary sources of calories may be added to the meal pattern if within the dietary specifications.

NATIONAL SCHOOL LUNCH PROGRAM MEAL PATTERN AS OF JULY 1, 2024

Amount of Food1 per Week (minimum per day)

Meal Components	Grades K-5	Grades 6-8	Grades 9-12
Fruits (cups) ²	2 1/2 (1/2)	2 1/2 (1/2)	5 (1)
Vegetables (cups) ²	3 3/4 (3/4)	3 3/4 (3/4)	5 (1)
• Dark green subgroup ³	1/2	1/2	1/2
• Red/orange subgroup ³	3/4	3/4	1 1/4
 Beans, peas, and lentils subgroup³ 	1/2	1/2	1/2
• Starchy subgroup ³	1/2	1/2	1/2
• Other vegetables subgroup ^{3,4}	1/2	1/2	3/4
Additional vegetables from any subgroup to reach total	1	1	1 1/2
Grains (oz. eq.) ⁵	8–9 (1)	8–10 (1)	10–12 (2)
Meats/meat alternates (oz. eq.) 6	8–10 (1)	9–10 (1)	10–12 (2)
Fluid milk (cups) ⁷	5 (1)	5 (1)	5 (1)

Daily Amount Based on the Average for a 5-Day Week8

Dietary Specifications	Grades K-5	Grades 6-8	Grades 9-12
Minimum-maximum calories (kcal)	550–650	600–700	750–850
Saturated fat (% of total calories)	< 10	< 10	< 10
Added sugars (% of total calories) - must be implemented by July 1, 2027	< 10	< 10	< 10
Sodium limit - in place through June 30, 2027	<u><</u> 1,110 mg	<u><</u> 1,225 mg	<u><</u> 1,280 mg
Sodium limit - must be implemented by July 1, 2027	<u><</u> 935 mg	<u><</u> 1,035 mg	<u><</u> 1,080 mg

ENDNOTES

¹ Food items included in each group and subgroup and amount equivalents.

² Minimum creditable serving is 1/8 cup. One quarter-cup of dried fruit counts as 1/2 cup of fruit; 1 cup of leafy greens counts as 1/2 cup of vegetables. No more than half of the fruit or vegetable offerings may be in the form of juice. All juice must be 100 percent full-strength.

³ Larger amounts of these vegetables may be served.

⁴ This subgroup consists of "Other vegetables" as defined in paragraph (c)(2)(ii)(E) of this section. For the purposes of the NSLP, the "Other vegetables" requirement may be met with any additional amounts from the dark green, red/orange, and bean, peas, and lentils vegetable subgroups as defined in paragraph (c)(2)(ii) of this section.

⁵ Minimum creditable serving is 0.25 oz. eq. At least 80 percent of grains offered weekly (by ounce equivalents) must be whole grain-rich as defined in § 210.2 of this chapter, and the remaining grains items offered must be enriched.

⁶ Minimum creditable serving is 0.25 oz. eq.

⁷ Minimum creditable serving is 8 fluid ounces. All fluid milk must be fat-free (skim) or low-fat (1 percent fat or less) and must meet the requirements in paragraph (d) of this section.

⁸ By July 1, 2027, schools must meet the dietary specification for added sugars. Schools must meet the sodium limits by the dates specified in this chart. Discretionary sources of calories may be added to the meal pattern if within the dietary specifications.

ENCOURAGE HEALTHY FOOD CHOICES IN SCHOOLS NUDGING NUTRITION

Product Placement

- Display fruit in at least two locations.
- Offer vegetables on all service lines.
- Make grab-and-go (pre-packaged) healthy options easy to find.
- Display white milk in the front of the cooler.

Improve Taste and Quality

- Offer sliced or cut fruit daily.
- Display whole fruit in attractive bowls.
- Season vegetables.
- Serve cut, raw veggies with a dip like hummus.

Increase Variety

- Offer at least two fruit choices each day.
- Offer at least four vegetable choices each day.
 - Two hot vegetables
 - Two cold vegetables
- Offer pre-packaged main salads each day.

Write an Appealing Menu

- Menu Board
- Menu Item Descriptions
- Menu Promotions

Use Positive Communication

- Greeting
- Serving
- Cash Register
- Special Requests
- Manage Conflicts

Maintain a Pleasant Environment

- Attractive dining room.
- Branded dining room.
- Easy to read menu board.
- Cleaning supplies not visible during service.
- Recycling/trash bins are away from dining students.
- Clear traffic pattern.

CATCHY NAMES

K-5 grade students like creative, playful names: X-ray Carrots, Big Bad Bean Burrito

Match the adjective to the menu item:

Green beans Sweet Talking

Baked sweet potatoes Fiesta
Baked apples Snappy

Black bean soup Green lantern

Peas Power Veggie pizza Rainbow

6-12 grade students like descriptive, sensory words: Spiced Butternut Squash, Fluffy Mashed Potatoes, Warm Baked Apples

Match the adjective to the menu item:

Green beans Harvest
Baked sweet potatoes Home-style
Baked apples Spiced
Black bean soup Fresh
Peas Garden
Veggie pizza Texas

Add your own adjectives to these common menu items:

Baked chicken:	
Turkey Sub:	
Chef Salad:	
Grilled Cheese Sandwich:	
Hamburger:	
Sides:	
Corn:	
Kale:	
Kiwi:	
Salad Bar:	
Rice:	
Squash:	
Mixed/Steamed Veggies:	

Your Favorite Menu Items:	
	-

Food Naming Word Bank

Food Properties	Sensory – Taste/Smell	Appeal	Silly
Bubbly	Aromatic	Bright	Cool
Cheesy	Bitter	Colorful	Crazy
Chewy	Delectable	Delightful	, Dazzling
Chunky	Delicious	Fresh	Dynamite
Creamy	Fiery	Gorgeous	Extraordinary
Crisp(y)	Flavorful	Green/Red	Fabulous
Crunchy	Fruity	Intense	Famous
Flaky	Gingery	Luscious	Fantastic
Fluffy	Lemony	Mouth-Watering	Heavenly
Frosty	Mild	Pure	Hip
Glazed	Nutty	Refreshing	Jazzy
Gooey	Peppery (peppered)	Robust	Jolly
Hearty	Savory	Sunny	Lively
Hot	Scrumptious	Vivid	Snappy
Juicy	Spicy	Appetizing	Snazzy
Moist	Sugary	Delicious	Spectacular
Plump	Sweet	Local	Splashy
Rich	Tangy	Smothered	Superb
Ripe	Tart	Marvelous	Tantalizing
Saucy	Yummy	Wonderful	Wild
Seasoned	Zesty	Delectable	Wow
Silky	Zingy	Bubbling	Zippy
Sizzling	Chilled	Infused	Zesty
Sparkling	Cold		Zingy
Sticky	Mellow		
Toasty (toasted)	Icy		
Velvety	Refreshing		
Whipped			

Food Naming Examples

Fruits	Veggies	Main Dishes
Berrilicious Fruit Smoothie	Crazy Carrot Sticks	Fiery Chicken Fajitas
Savory Cinnamon Apples	Wild Potato Wedges	Tasty Turkey Burger
Jazzy Juice	Zesty Zucchini Pasta	Dynamite Turkey Dog
Outstanding Oranges	Tangy Vegetable Stir-Fry	Intense Chicken Chili
Super Power Strawberries	Snazzy Sugar Snap Peas	Dynamite Deli Sandwich
Sun-Ripened Kiwi	Luscious Leafy Greens	Chillin' Chicken
Peppy Pears	Cool Corn on the Cob	Surfs Up Fish Sandwich
Pump Me Up Pineapple	Spectacular Spinach	Touchdown Turkey Wrap
	Energy Boosting Edamame	Super Salad
	Be Strong Beans	Sporty Spaghetti w/ Meatballs

Adapted from Ohio Smarter Lunchroom Movement,

https://ohiosmarterlunchrooms.files.wordpress.com/2015/11/food-naming-word-bank.pdf

Cues for Positive Communication with Students and Staff

Occasion	Goal	Examples
Greeting	 Create a welcoming atmosphere Take the first step to building rapport Promote a reimbursable meal and/or targeted food item 	 "Good morning! What would you like to try today?" "Hello! Would you like to try the [entrée]? "Welcome to lunch! The [entrée] is popular today. Would you like to try it?" "Today is [entrée] day. Would you like some?" "Welcome to the lunchroom! What can I get for you today? The [targeted item] is a great choice."
Serving	 Create a reimbursable meal Promote healthy sides 	 "The [vegetable] goes well with the [entrée]." "Which vegetable/side would you like with that?" "The [fruit] is perfectly ripe." "If you don't like [first side offered], how about trying the [other side]?" "You can make [the entree] a meal with some [fruit/vegetable sides]." "Today we're serving [list items]. Can I get you come [target item]?" "We have a great new recipe: [list targeted item(s)]. Would you like to try it? Tell us what you think!"
Cash Register	Create a reimbursable meal Prompt students to "fill out" an incomplete meal	 "I see you don't have all your items. Why not grab a [handheld fruit in nearby basket]?" "You get 3 sides with your meal. You can still take one – go ahead and pick." "Your meal is not complete! Don't forget to take a [fruit, vegetable, or juice] as a side." "You forgot milk! It's included with your lunch. How about getting some now?" "It's not too late, go back and get [missing item]." "You can make that a meal with [missing item(s)]."
Special Requests	 Ensure all students can eat a complete meal Assist new readers (elementary, special needs, and ELL students) 	To staff (discretely): "I see that [student] has a special diet. I will try to set aside a [preferred item]; however, to ensure he/she gets the correct meal, please bring him/her to the front of the line."

		 To students still mastering reading: "Today's specials are [read menu]." To students still mastering reading: "Here is a menu (show picture menu). What would you like today? What looks the best to you?" To students still mastering reading: "Today's specials are [list items]. Would you like to try [target item(s)]?"
Managing Conflict	 De-escalate situation Avoid creating or allowing lasting negative feelings on either side Keep serving line moving smoothly and quickly 	 "I'm sorry you don't like [first item offered]; how about [other entrée option] instead?" "I'd be happy to explain what makes a reimbursable meal." "The USDA defines what counts as a reimbursable meal, we aren't allowed to make substitutions [ex. soda for milk, snack for fruit]."

Adapted from Iowa Department of Education

ENHANCING FLAVOR IN FOODS

It Makes Sense

The popping of corn, the crunch of a crusty bread, the sight of vibrant red strawberries, the aroma of cinnamon rolls, and the taste of juicy oranges. All five of our senses provide us with perceptions, when collected, become "flavor". It is this collective *flavor* that is the primary reasons why we eat what we do. Taste is the most important influence on our food choices.

Concern about food not tasting good is the most often mentioned obstacle to buying healthful foods. Your message to students should focus on flavor while delivering healthful food!

The Five Senses

- 1. Hearing
- 2. Sight
- 3. Touch
- 4. Smell
- 5. Taste

Components of Flavor

Taste

Our sense of taste comes from the chemical receptors, or taste buds, in our mouth. These some 10,000 taste buds record five basic tastes:

- sweet
- salty
- sour
- bitter
- umami

Additionally, the insides of our mouths feel such sensations as the burn of hot chilies, the cooling effect of mint, or the fizz of carbonated beverages.

Smell

Although the sense of taste is most often given credit for the appeal or dislike of a food, the sense of smell is most often the guilty party. Unlike our limited repertoire of tastes, the number of odors we can detect seems to be unlimited. When we put food in our mouth the chewing process releases volatile compounds that pass to the olfactory receptors cells at the top of our nasal passages. Our sense of smell is thought to be 10,000 times more sensitive than our sense of taste. Think about the last time you had a cold. Did you complain about foods having no taste?

Visual

When food is placed in front of us one of the first senses that gives you flavor clues is sight. We can anticipate the sweetness of strawberries by the intensity of red color. Steam rising off the vegetables indicates they are piping hot. The golden brown of toast hints at its crispness. It is certainly true that "we eat with our eyes." Just by looking at a tray you can anticipate how the food will feel and taste, even before the first bite.

Texture

A piece of poached salmon that flakes away under the gentle prodding of a fork hints at the tenderness of the fish. On the contrary, when a blade of a knife refuses to penetrate a piece of meat it indicates that the meat will be tough and chewy. The velvet smoothness of a mousse, the crunchy crust of a bread, and the snap of a sugar snap pea are all texture indicators that give us insight into the "taste" of a food.

Temperature

The temperature of our food affects our perception of its taste. Coldness suppresses sweetness. Bitterness is more intense with in cold solution. Sourness is more intense with a warm solution

Sound

The sizzle of onions when they hit the sauté pan is a sign that tells us the pan is just the right temperature. The snap of a carrot tells of its freshness. There are many sounds in our culinary world that add to the enhancement of the *flavor* of foods.

What can school nutrition operators do?

The first thing you can do as a foodservice operator is to take a moment and note the different ways in which all five of the senses are interacting in your operation and in the foods, you are serving. Look for ways to enhance all the aspects of flavor!

The "Tastes"

- Sweet
- Sour (Acid)
- Salty
- Bitter (Alkaline)
- Umami

Flavor in cooking is developed through...

- the selection of quality ingredients
- the appropriate use of seasonings and flavorings
- the application of processes that capture flavor
- the proper execution of cooking techniques

FLAVOR ENHANCERS

Herbs	Fresh, Dried, Pestos			
Spices	Whole, Ground, Toasted			
Aromatic ingredients	Onions, Shallots, Garlic, Leeks, Ginger			
Peppers	Hot:			
	ancho, chipotle, jalapeno, poblano, serrano,			
	habanero, Scotch bonnets			
	Sweet			
	green, red, yellow, orange, purple			
Acidic Ingredients	Vinegars:			
	malt, cider, balsamic, fruit, herb, garlic			
	Citrus:			
	zest or peel, juice			
	Tomatoes:			
	Juice, fresh, canned			
Flavorful liquids	Stocks:			
	vegetable, chicken, beef, fish			
	Juices:			
	fruit or vegetable			
Other Condiments	Horseradish, Wasabi, Ginger, Mustards, Pickle			
	Relishes, Olives, Salsas (Fruit & Vegetable), Ketchup,			
	Infused Oils			
Cooking processes	Extraction			
	Infusion			
	Marinating			
	Reductions			
Cooking methods	Sautéing			
	Searing			
	Poaching			
	Roasting			
	Baking			
	Toasting			
	 Toast nuts and seeds to bring out the flavor. 			
	 Roast vegetables for unique, robust flavors. 			

HERBS

Herbs: The leaves of annual and perennial low growing shrubs

Aromatic seeds: The seeds of graceful lacy annual plants (anise, caraway, coriander)

CULINARY HERBS

Variety	Description	Peak	Uses/ Affinities
		Season	
Basil	leaves are pointed, green. Purple varieties, large or small-leafed varieties available, also specialty types with cinnamon, clove and other flavors	Summer/ year-round	Flavoring for sauces, pesto sauce, dressings, infusing oils, vinegars etc. Also available in dried-leaf form. Chicken, fish and pasta dishes
Bay leaf	Smooth, rigid leaf	Summer	Available dried year- round. Used to flavor soups, stews, stocks, sauces and grain dishes
Chervil	Similar in shape to parsley, with finer leaves, licorice flavor	Summer	Component of "fines herbes" often used in "pluches" to garnish dishes. Egg, chicken, shellfish, dishes.
Cilantro	Similar in shape to parsley, with pronounced, unique flavor	Mid to late summer	Component of Asian and South/Central American dishes; flavoring for salsas and other uncooked sauces.
Dill	Feathery shape with strong aroma	Late summer	Fresh is used to flavor sauces, stews, braises (especially Central and Eastern European dishes). Seeds used in pickles.
Marjoram	Small, rounded leaves with a flavor similar to oregano	Throughout summer	Used in Greek, Italian and Mexican dishes. Especially suitable for vegetable dishes.

Mint	Pointed, textured leaves. Size varies by type, as does particular flavor.	Throughout summer	Used to flavor sweet dishes, beverages, as a "tisane" and in some sauces. Mint jelly is traditional with lamb.
Oregano	Small, oval leaves	Throughout summer	Used with a variety of sauces, with poultry, beef, veal, lamb and vegetables
Parsley	Feathered leaves; may be curly or flat	Year-round	Component of "fines herbs" and of bouquet garni. Flavoring for sauces, soups, dressings, and other dishes. Garnish.
Rosemary	Leaves shaped like pine needles with a pine aroma and flavor	Year-round	Large branches used as skewers. Popular in Middle Eastern dishes, grilled foods and in marinades. Dried is nearly as intense in flavor as fresh.
Sage	Large leaves, may be furry or velvety. Sage- green color	Summer	Popular as flavoring in stuffings, sausages and some stews. Dried, rubbed sage also available.
Savory	Summary savory has flavor similar to thyme. Winter savory is more like rosemary	Summer and fall	Used in salads, stuffings, sauces.
Tarragon	Narrow leaves with pronounced licorice flavor	Summer	Another component of "fines herbs." Used with chicken, fish, veal, egg.
Thyme	Very small leaves. Varieties available with special flavors (nutmeg, mint, lemon, etc.)	Summer	Part of bouquet garni. Dried leaves may occasionally be used in place of fresh. Used to flavor soups, stocks, stews and braises.

Source: The New Professional Chef (6th edition)

SPICES

Derived from the bark, root, fruit, or berry of perennial plants. Examples: Bark – cinnamon, Root – ginger, Berry – pepper, Fruit -nutmeg

Name	Uses/ Affinities	
Allspice	Braises, forcemeats, fish, pickles, desserts	
Anise	Desserts and other baked goods, liqueur	
Caraway	Rye bread, pork, cabbage, soups, stews, some cheeses,	
Cardamom	Curries, some baked goods, pickling	
Cayenne	Sauces, soups, most meats, some fish, and poultry	
Celery seed	Salads (including cole slaw), salad	
Chili powder	Chili and other Mexican dishes, curries	
Cinnamon	Desserts, some baked goods, sweet potatoes, hot beverages,	
_	curries, pickles, and preserves	
Cloves	Stocks, sauces, braises, marinades, curries, pickling, desserts, some baked goods	
Coriander seeds	Curries, some forcemeats, pickling, some baked goods	
Cumin	Curries, chili, and other Mexican dishes	
Dill seeds	Pickling, sauerkraut	
Fennel seeds	Sausage, fish and shellfish, tomatoes, some baked goods, marinades	
Fenugreek	Curries, meat, poultry, chutney	
Ginger	Fresh: Asian dishes, curries, braises: ground dry: some desserts	
	and baked goods	
Horseradish	Sauces (for beef, chicken, fish), egg salad, potatoes, beets	
Juniper	Marinades, braises (especially game), sauerkraut, gin, and	
	liqueurs	
Mace	Some forcemeats, pork, fish, spinach, other vegetables, pickles,	
	desserts, and baked goods	
Mustard	Pickling, meats, sauces, cheese and eggs, prepared mustard	
Nutmeg	Sauces and soups (especially cream), veal, chicken, aspics,	
	spinach, mushrooms, potatoes, other vegetables, desserts	
	(especially custards), baked goods	
Paprika	Braises and stews (including goulash), sauces, garnish	
Pepper	Stocks, sauces, meats, vegetables, many other uses	
Saffron	Poultry, seafood, rice pilafs, sauces, soups, some baked goods	
Star anise	Asian dishes, especially pork and duck	
Turmeric	Curries, sauces, pickling, rice	

PEPPER

Black peppercorns	Available as whole berries, cracked, or ground. The Telicherry peppercorn is one of the most prized. Mignonette or shot pepper is a combination of coarsely ground or crushed black and white peppercorns.
White peppercorn	Black peppercorns are allowed to ripen and then husks are removed. May be preferred for pale or lightly colored sauces. Available in same form as black peppercorns.
Green	Unripe peppercorns that are packed in vinegar or brine; also
peppercorns	available freeze-dried (they must be reconstituted in water before
	use).
Cayenne	A special type of chili, originally grown in Cayeene in French
	Guiana. The chili is dried and ground into a fine powder. The
	same chili is used to make hot pepper sauces.
Chili flakes	Dried, whole red chili peppers that are crushed or coarsely ground.
Paprika	A powder made from dried sweet peppers (pimientos). available as mild, sweet, or hot. Hungarian paprikas are considered superior in flavor.

Source: The New Professional Chef (6th edition)

SEASONING BLENDS Yield: 1 quart

Mexican	Onion powder	1/3 cup
adapted from USDA	Garlic, granulated	1/3 cup
Recipe, Mexican	Paprika, smoked	1/3 cup
Seasoning Mix, G-01A	Cumin, ground	1 1/4 cup
Seasoning Ma, G-01A	Chili powder	1 ³ / ₄ cup
Buffalo	Onion powder	
Dullaio	1	1 cup
	Garlic, granulated	1 1/4 cup
	Paprika	½ cup
	Chili pepper	1 ¼ cup
	Red pepper	1⁄4 cup
Italian	Basil, dried	1 1/3 cup
adapted from USDA	Oregano, dried	1/3 cup
recipe, Italian	Marjoram, dried	1 cup
Seasoning Mix, G-01	Thyme, dried	1/3 cup
Caribbean Spice	Ginger, ground	1 cup
	Black pepper, ground	1 cup
	Orange peel, dried, ground	7/8 cup
	Mace, ground	1 tablespoon
	Cloves, ground	1 tablespoon
	Brown sugar	1 cup
Garlic & Herb	Granulated onion	1/3 cup
	Garlic, granulated	2/3 cup
	Paprika	1 cup
	Oregano leaves	1 cup
	Thyme leaves	1 cup

Barbecue	Onion powder	1 cup
	Garlic, granulated	1 cup
	Paprika, smoked	7/8 cup
	Cumin, ground	7/8 cup
	Black pepper	1/4 cup
Ranch	Garlic, granulated	1 ¼ cup
	Onion powder	1 ¼ cup
	Dill weed	1 ¼ cup
	Black pepper	1⁄4 cup
Parmesan-Rosemary	Garlic, granulated	½ cup
	Rosemary, crushed	³⁄₄ cup
	Parmesan cheese	2 ¾ cups
Spice Rub	Onion powder	5/8 cup
	Garlic, granulated	5/8 cup
	Paprika	5/8 cup
	Cumin, ground	5/8 cup
	Chili powder	5/8 cup
	Black pepper	2 tablespoons
	Brown sugar	³⁄₄ cup
Tandoori	Paprika	2/3 cup
	Cumin, ground	2/3 cup
	Coriander	2/3 cup
	Cayenne Pepper	2/3 cup
	Ginger, ground	2/3 cup
	Turmeric	2/3 cup

ADDING SALT

Salt may be added to any of these seasoning blends according to the flexibility you have. Using 1 teaspoon of salt for 50 portions adds about 45 mg of sodium per portion. Using 1 tablespoon of salt for 100 portions adds about 70 mg of sodium per portion.

VINEGAR

The term "vinegar" comes from the French *vin aigre*, or sour wine. Vinegar is an acidic liquid produced through fermentation. Souring is a natural process that occurs when an alcoholic liquid is exposed to the air. Bacteria present in the air converts the alcohol into a natural acetic acid, and it is this acid that gives vinegar its characteristic sharpness. Vinegar is an essential ingredient in the kitchen and a highly versatile flavoring. Keep vinegars in a cool place away from light; they do not need to be refrigerated. Most vinegars can be kept almost indefinitely if stored correctly.

Types Of Vinegar

Vinegar	Acetic Acid	Flavor	Uses
Wine vinegar France, Italy, Spain Champagne Sherry Balsamic	At least 6 % acetic acid	Produced from both red and white wines, the quality of the vinegar depends on the quality of the wine. There are almost as many types of wine vinegar as there are wines.	Wine vinegars are ideal for mayonnaise and all kinds of salad dressings. They are also used in many classic butter sauces, such as béarnaise.
Malt vinegar England	4-8 %	Malt vinegar is made from grain (malted barley) and is strongly flavored.	Often used as a pickling vinegar for onions and other vegetables. It is also used in the manufacture of sauces and chutneys. Best with straight forward food such as fish and chips, cold meats, or when preparing relishes and chutneys.
Cider vinegar North America	5-6 %	It has a strong, sharp flavor and so should only be used where it complements the other ingredients.	Cider vinegar is best for salads, dressings, marinades, condiments, and most general vinegar needs. It is the best choice for deglazing pork chops with sautéed apples. Used in fruit pickling.
Rice wine vinegar Far East	2-4 %	Japanese rice vinegars are mellow and mild, while vinegar from China is sharp and sometimes slightly sour.	Rice vinegar is popular in Asian cooking and is great sprinkled on salads and stir-fry dishes. Its gentle flavor is perfect for fruits and tender vegetables.

CITRUS

- Lemon
- Lime
- Orange
- Grapefruit
- Kumquat
- Tangerine

Zest	Use	Tool	Examples
Fine Zest	Dressings, sauces, cookies	Microplane	
Coarse zest	Muffins or salads	Zester	
Citrus peel	Flavoring soups, water Lemon extract powder	Vegetable peeler	

Zesting citrus:

- Wash and dry fruit thoroughly before zesting.
- Remove zest from the fruit BEFORE cutting or juicing the fruit.
- Remove ONLY the outer part of the peel; do not include the bitter white pith.

Citrus Salt

Kosher salt 1/4 cup

Lemon zest 1 tablespoon finely grated Lime zest 1 tablespoon finely grated Orange zest 1 tablespoon finely grated

Citrus Sugar

Lemon zest1 teaspoonLime zest1 teaspoonGrapefruit zest1 teaspoonOrange zest1 teaspoonGranulated sugar1 cup

Cooking for Healthy Kids 122 Resources

REDUCE THE SODIUM

What is sodium?

Sodium is a mineral which everyone needs to regulate body fluids. Sodium also helps nerves and muscles to function properly. Sodium is abundant in our food supply.

Salt or sodium

- Sodium chloride is the chemical name for salt.
- 90 % of the sodium we consume is in the form of salt. Most of this is found in processed food and foodservice operations.
- Salt (NaCl) is 40% sodium (Na) and 60% chloride (CL).

The problem with too much sodium

- Too much sodium is the leading risk factor for high blood pressure.
- High blood pressure is the major risk factor for heart disease and stroke, both are leading causes of death in the US.
- Americans consume substantially more sodium than recommended, more than 3400 mg of sodium daily.

Recommendations

- The 2020-2025 Dietary Guidelines for Americans recommend limiting sodium to less than 2300 mg per day (about one tsp. of table salt) for the public.
- Recommend 1500 mg per day for certain populations, such as people with hypertension, prehypertension, or other risk factors for cardiovascular disease.

Final Rule for Sodium in School Meals

Age/Grade Group	Current Sodium Limit: through	Sodium Limit: Must be implemented by July 1, 2027 (approximate 15% reduction for lunch, 10%
	June 30, 2027	reduction for breakfast from current limits)
School Breakt	fast Program	
K-5	≤ 540 mg	≤ 485 mg
6-8	≤ 600 mg	≤ 535 mg
9-12	≤ 640 mg	≤ 570 mg
National Scho	ool Lunch Program	
K-5	≤ 1,110 mg	≤ 935 mg
6-8	≤ 1,225 mg	≤ 1,035 mg
9-12	≤ 1,280 mg	≤ 1,080 mg

Source: https://www.fns.usda.gov/cn/school-nutrition-standards-updates/sodium. Limits apply to the average amount of sodium in lunch and breakfast menus offered during a school week.

Cooking for Healthy Kids 123 Resources

Where is it found

- Salt, or sodium chloride, is the primary source of sodium in the diet.
- Processed foods

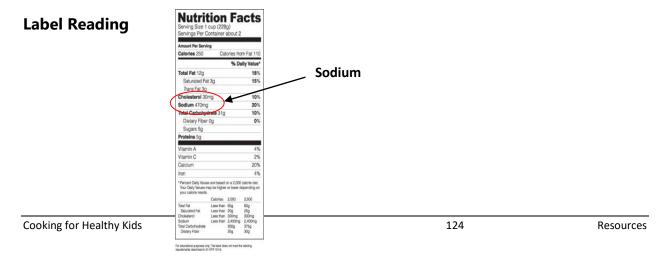
Sodium-Rich Ingredients

Sodium is in a variety of compounds used as food ingredients. Sodium both preserves food and enhances flavor. Look for added sodium in ingredient lists. Check labels for sodium content.

Ingredient	Function
Monosodium glutamate (MSG)	Flavor enhancer
Sodium benzoate	Preservative
Sodium caseinate	Thickener and binder
Sodium citrate	Buffer used to control acidity in soft
	drinks
Sodium nitrite	Curing agent in meat
Sodium phosphate	Emulsifier and stabilizer
Sodium propionate	Mold inhibitor
Sodium saccharin	Artificial sweetener

Sodium labeling

Label term	Definition
Sodium free	Less than 5 mg per serving.
Very low sodium	35 mg or less per serving and, if the serving is 30 g or
	less or 2 tablespoons or less, per 50 g of the food.
Low sodium	140 mg or less per serving and, if the serving is 30 g
	or less or 2 tablespoons or less, per 50 g of the food.
Reduced or Less sodium	At least 25 percent less per serving than the
	reference food.
Unsalted or no salt added	no salt added during processing; however, the
	product may still contain sodium



SALT IN COOKING

- Tastes good and is inexpensive.
- Our taste (sensory preferences) for salt can be decreased.
- Make gradual changes to lessen the amount of sodium over time.

FUNCTIONS OF SALT

- Added salt improves the sensory properties and taste of virtually every food.
- Salt was found to improve the perception of product thickness.
- Salt will enhance other tastes, such as sweetness.
- Used in curing meat, brining products.
- Used in baking to control yeast.
- Retains moisture.
- In cheeses, salt removes excess water, creating a firmer texture and contributes to characteristics such as meltability, shredding, stretching, and flow.
- Enhancing raw poultry, beef, pork, and seafood products with sodium-containing (salt, sodium phosphates) solutions to improve the tenderness (juiciness) of leaner cuts of meat.
 - A regular serving of meat (4 oz.) without enhancement contains 68 mg of sodium.
 - The same serving of meat injected up to 10 percent of its weight with brine contains 384 mg sodium per serving.

STRATEGIES FOR SODIUM REDUCTION

- Gradual reduction without students' knowledge
- Use of low-sodium foods
- Modification of the size and structure of salt particles
- Use of substitutes and enhancers

Salt	Amount	Weight	Sodium
Table salt	1 tsp.	6 g	2300 mg
Diamond Crystal kosher salt	1 tsp.	2.8 g	1120 mg
Morton kosher salt	1 tsp.	4.8 g	1920 mg
Morton sea salt	1 tsp.	5.6 g	2240 mg
Diamond Crystal Salt Sense	1 tsp.	3.2 g	1560 mg
Ingredients: salt, silicon dioxide,			
tricalcium phosphate, sodium			
bicarbonate, dextrose, potassium iodine			
Morton Salt Substitute	1 tsp.	3.6 grams	0 mg
Ingredients: potassium chloride			

Cooking for Healthy Kids 125 Resources

SODIUM IN CONDIMENTS, SAUCES, SALAD DRESSINGS

Ingredients naturally low in sodium	
Vegetables, fresh, frozen	House-made stocks
Vegetable juices (freshly made)	Sun-dried tomatoes
Fruits and fruit juices	Herbs
Vinegars	Spices
Citrus juices	
-	

Ingredients high in sodium	
Pre-prepared salad dressings	Spice salts (garlic salt, celery salt, etc.)
Pre-prepared sauces	Pre-prepared mayonnaise
Food bases (chicken, beef, vegetable, etc.)	Canned vegetable juices

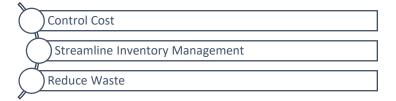
Some high-sodium condiments		
Onion salt	Soy sauce	Mustard
Celery salt	Steak sauce	Worcestershire sauce
Garlic salt	Barbeque sauce	Salad dressings
Seasoned salt	Catsup	Pickles
Meat tenderizer		Chili sauce
Bouillon		Relish

Packaged food category	mg sodium (mean value)
Barbecue sauce, ketchup, steak sauce, marinades	1081 mg / 100 gm
Salsa, dips, dipping sauces, tartar sauces, mustard sauce,	712 mg / 100 gm
sweet and sour sauce	
Asian-style condiments	706 mg / tbsp.
Salad dressing	1019 mg / 100 gm
Mayonnaise and mayonnaise-type dressing	713 mg / 100 gm
Entree sauces (tomato-based pasta sauces)	442 mg / 100 gm
Entree sauces (gravy, cheese, pizza, Alfredo)	550 mg / 100 gm
Dry seasoning mixes	415 mg / serving

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REDUCE INVENTORY - INCREASE MENU VARIETY

INVENTORY CONTROL:



MANAGING SKUS



A stock keeping unit (SKU) is the scannable bar code found on product labels. Each unique food item in your inventory has a SKU. Reducing the number of items in inventory will simplify receiving, speed up inventory, reduce inventory costs and make it easier to find products in the freezer. An efficient school food operation will work to minimize the number of SKUs while maximizing variety.

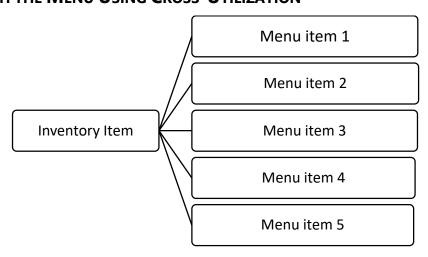
CORE INGREDIENTS

AND MORE

- Whole ingredients
- Less processed
- No seasonings

- Menu item flexibility
- · Customizable menu items
- Increase global flavors
- Work across grade levels

STRETCH THE MENU USING CROSS-UTILIZATION



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CHICKEN BREAST

Shredded	○BBQ pulled chicken
chicken	○Chicken noodle soup
	oChicken tetrazzini
	⊙Chicken chili with beans
	○Chicken taco
•Diced	⊙Kung pao chicken with sweet peppers
chicken	⊙Italian chicken with oregano and lemon
omenen.	○Summer chicken stew
	○Buffalo chicken tot bake
	⊙Chicken pot pie
	oCaribbean chicken sub
•Chicken	⊙Chicken fajita rice bowl
strips	oChicken stir-fry
	○Cheesy chicken fajitas
	⊙Chicken teriyaki
	○Chicken curry casserole
•Chicken tenders	○Crispy chicken tenders with dipping sauce
tenders	⊙Fresh green salad with chicken tenders
	⊙Teriyaki glazed chicken
•Whole	⊙Kati-Kati baked chicken
chicken breast	⊙Honey-lemon chicken
	OBaked rosemary balsamic chicken
	○Sweet and sassy chicken
	OChicken slider with honey mustard aioli

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PERSONAL REFLECTION

Topic	What did I learn?	How am I going to use this information?
Culinary Basics		
Mise en Place Knife Skills		
Cooking Vegetables for Greater Appeal		
Scratch Baking Principles and Techniques		
·		

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ACTION PLAN

From your Personal Reflection notes, identify your top 3 priorities that you want to address when you return to your school. Develop an action plan for accomplishing each.

Goal	Action Steps	People who can help me Resources needed	Date to accomplish
Priority One		Resources needed	uccompilati
Priority Two			
Priority Three			

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These materials were developed at the Culinary Institute of America.

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