

EXPL®RE



Texas 4-H Foods & Nutrition Exploring the Food Challenge



texas4-h.tamu.edu

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EXPLOSE RETURN



Description

The Texas 4-H Explore series allows 4-H volunteers, educators, members, and youth who may be interested in learning more about 4-H to try some fun and handson learning experiences in a particular project or activity area. Each guide features information about important aspects of the 4-H program, and its goal of teaching young people life skills through hands-on experiences. Additionally, each guide contains at least six learning experiences, which can be used as a project guide, or as activities for six different 4-H

meetings.

Purpose

Texas 4-H is designed to develop the youth of our state into productive adult citizens. The 4-H Program uses a non-formal educational process of engaging youth in a "learning by doing" process. This includes hands-on opportunities, participation in workshops and clinics conducted by volunteer leaders or professionals, as well as competitive experiences which allow 4-H members to demonstrate the knowledge they have gained. Through this entire process, the youth are learning key life skills such as working with others, teamwork, cooperation, and goal setting. Through all experiences, youth get to interact with adult volunteers and county Extension agents.

What is 4-H?

4-H members across the nation are responding to challenges every day in their communities and their world.

As the youth development program of the Cooperative Extension System of land-grant universities, 4-H is the nation's largest youth development organization, empowering six million young people throughout the United States. Cooperative Extension of 1862 and 1890 land-grant universities provide leadership to engage young people in 4-H in all 3,007 counties of the United States. The impact of the Cooperative Extension partnership is profound, bringing together National Institute of Food and Agriculture of USDA, land grant universities and county government to resource learning opportunities for youth.

Through America's 110 land-grant universities and its Cooperative Extension System, 4-H reaches every corner of our nation—from urban

neighborhoods to suburban schoolyards to rural farming communities. With a network of more than 6 million youth, 600,000 volunteers, 3,500 professionals, and more than 25 million alumni, 4-H helps shape youth to move our country and the world forward in ways that no other youth organization can.

Texas 4-H

Texas 4-H is like a club for kids and teens ages 5-18, and it's BIG! It's the largest youth development program in Texas with more than 550,000 youth involved each year. No matter where you live or what you like to do, Texas 4-H has something that lets you be a better you!

You may think 4-H is only for your friends with animals, but it's so much more! You can do activities like shooting sports, food science, healthy living, robotics, fashion, and photography.

Look for 4-H clubs at your school, an after-school program, a community center, or even on a military base or through the reserves for military families.

Texas 4-H is part of the Texas A&M AgriLife Extension Service and the Texas A&M System. Founded in 1908, 4-H is the largest youth development program in Texas, reaching more than 550,000 youth each year.

The 4-H Motto and Pledge

"To Make the Best Better!"

I pledge: My HEAD to clearer thinking, My HEART to greater loyalty, My HANDS to larger service and My HEALTH to better living, For my Club, my Community, my Country, and my world.

Participating in 4-H

4-H is a great program because it provides options for young people to participate. From a 4-H club located in your community, a SPIN club that focuses on one particular project area, or participating in 4-H through your classroom at school, 4-H allows youth to learn in many different environments. If you are interested in joining 4-H, contact your County Extension Office and ask for a list of the 4-H clubs in your area. If you are a school teacher/educator and would like to use 4-H curriculum or these project guides in your classroom, contact your Extension Office as well for assistance.

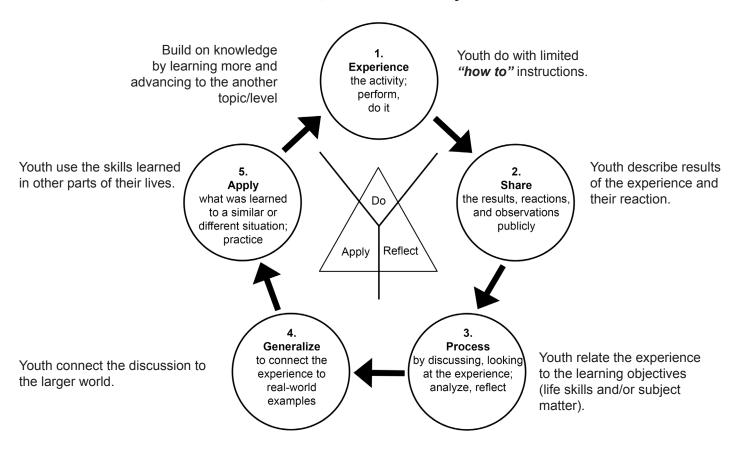


4-H "Learning by Doing" Learning Approach

The Do, Reflect, Apply learning approach allows youth to experience the learning process with minimal guidance from adults. This allows for discovery by youth that may not take place with exact instructions.

EXPLORE THE CONTENT

Introduction of the topic, overview and exploration of content, and review of objectives

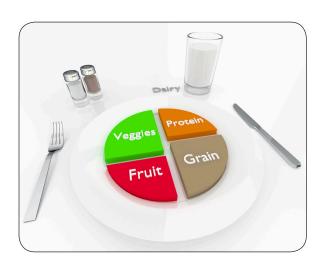


4-H FOODS & NUTRITION Lessons



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TIME:

30 to 35 minutes

MATERIALS NEEDED:

- 3 sets of 3-by-5-inch cards. Sets are designated by common color.
- 3 labeled containers (large brown bags will work fine)

OBIECTIVES:

The 4-H member will:

- Learn the basics of MyPlate.
- Be able to list the 5 different food groups.
- Learn the daily recommendations for each food group.
- Learn how to make a healthy plate.

EXPLORE THE CONTENT:

What is MyPlate?

MyPlate was developed as part of an initiative to help consumers make better food choices. It is designed not only to change consumer behavior but to remind Americans to eat healthfully.

How to build a healthy plate with the 5 different food groups. There are 5 different food groups according to MyPlate. This includes: Fruits, Vegetables, Grains, Protein Foods, and Dairy. For healthy meals, make half your plate fruits and vegetables, switch to fat free or low fat milk, make at least half your grains whole grains, and vary your protein food choices, being sure to keep meat and poultry choices small and lean.

Daily Recommendation of each food group

The daily recommendation of food that one eats depends on your age, sex, and level of activity.

Food Group	Boys	Girls
Fruits	Ages 9-13: 1.5 cups Ages 14-18: 2 cups	Ages 9-18: 1.5 cups
Vegetables	Ages 9-13: 2.5 cups Ages 14-18: 3 cups	Ages 9-13: 2 cups Ages 14-18: 2.5 cups
Grains	Ages 9-13: 6 ounce equivalents Ages 14-18: 8 ounce equivalents	Ages 9-13: 5 ounce equivalents Ages 14-18: 6 ounce equivalents
Protein	Ages 9-13: 5 ounce equivalents Ages 14-18: 6.5 ounce equivalents	Ages 9-18: 5 ounce equivalents
Dairy	Ages 9-18: 3 cups	Ages 9-18: 3 cups

What foods fall into each food group? (For more examples go to www.choosemyplate.gov)

Fruits	Vegetables	Grains	Protein	Dairy
Apples	Corn	Brown rice	Beef	Milk
Grapes	Broccoli	Oatmeal	Chicken	Ice cream
Lemons	Avocado	Corn tortillas	Eggs	Cheese
Papaya	Spinach	Spaghetti	Almonds	Yogurt
Watermelon	Black beans	Popcorn	Fish	Pudding
Kiwi	Mushrooms	Pretzels	Peanut Butter	-

Provide youth with the "Go, Slow, Whoa" handout as a visual for examples of foods from each food group.



DO:

Preparation: Prepare a set of cards for each team (three teams with 15 to 20 cards each). Each set of cards should be the same, but there must be a mark that distinguishes the different teams, or three different colored index cards can be used. Each of the cards will have a picture of food (for example: a carrot, an apple, a zucchini, etc), a word can be used instead of a picture as well. Containers must be made, and should be labeled with the 5 food groups that were discussed in the educational lesson. Large brown bags or large bowls will work fine for this activity as long as they are labeled.

Rules:

- 1. 3 teams are selected, and the room is cleared to allow running a relay.
- 2. Each student must start behind a line, pick up a card, run and place it in the correct corresponding food group bag, and return to tag the next person in line. The next person repeats until all cards are used.
- 3. The winning team (first to deposit all of their cards in the containers) receives 5 points for best speed; the second team will receive 3 points; and the last team will receive 1 point.
- 4. The instructor will go to the containers and remove the cards, checking with the group for correct answers. Each correct answer is worth 1 point.
- 5. The team with the highest point total is the winner.

REFLECT:

- Are there any foods you struggled with knowing in which group it belongs?
- Which foods were the easiest and hardest to decide where to place?
- When you think of MyPlate, what about it makes it easy to remember?

APPLY:

- How will you use this information when eating at home?
- How will you apply this information when participating in the food challenge?
- How will you incorporate MyPlate information into your food challenge presentation?

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FOOD GROUP

Almost Anytime Foods

<mark>SLOW</mark>

Sometimes Foods

Once In Awhile Foods

Fruits

Girls 8-18: 1.5cups

Boys 8-13: 1.5cups

Boys 14-18: 2cups

Fresh, frozen, or canned fruit (in natural juice or water)





100% fruit juice
Canned fruit in light
syrup
Driedfruit



Canned fruit in heavy syrup



Vegetables

Girls 8-13: 2cups

Girls 14-18: 2.5cups

Boys 8-13: 2.5cups

Boys 14-18: 3cups

Fresh, frozen, or canned vegetables without added fat or sauces.



All vegetables withadded sauces, mashed potatoes, and avocado.





French fries, hashbrowns, deep friedvegetables.





Grains

Girls 8-13: 5oz.

Girls 14-18: 6oz.

Bovs 8-13: 6oz.

Boys 14-18: 8oz.

All whole grains like brown rice, quinoa, tortillas, oatmeal.



Refined flour: bread, rice, pasta, waffles, granola, cornbread, biscuits.



Donuts, muffins, cookies, cakes, sweetened cereal, and cinnamon rolls.





Protein

Girls 8-18: 5oz.

Boys 8-13: 5oz.

Boys 14-18: 6.5oz.

Extra lean ground beef and turkey. Chicken, fish, tuna, beans.



Lean ground beef, broiled hamburgers, peanut butter, nuts, eggs.





Full fat ground beef and pork, fried hamburgers, bacon, fried chicken, fried fish, and sausage.



Dairy

Girls 8-18: 3cups

Boys 8-18: 3cups

Fat free/low-fat: milk, yogurt, cheese





Reduced fat 2% milk, cheesespread.





Whole milk, full fat cheese, whole milk yogurt, ice cream.





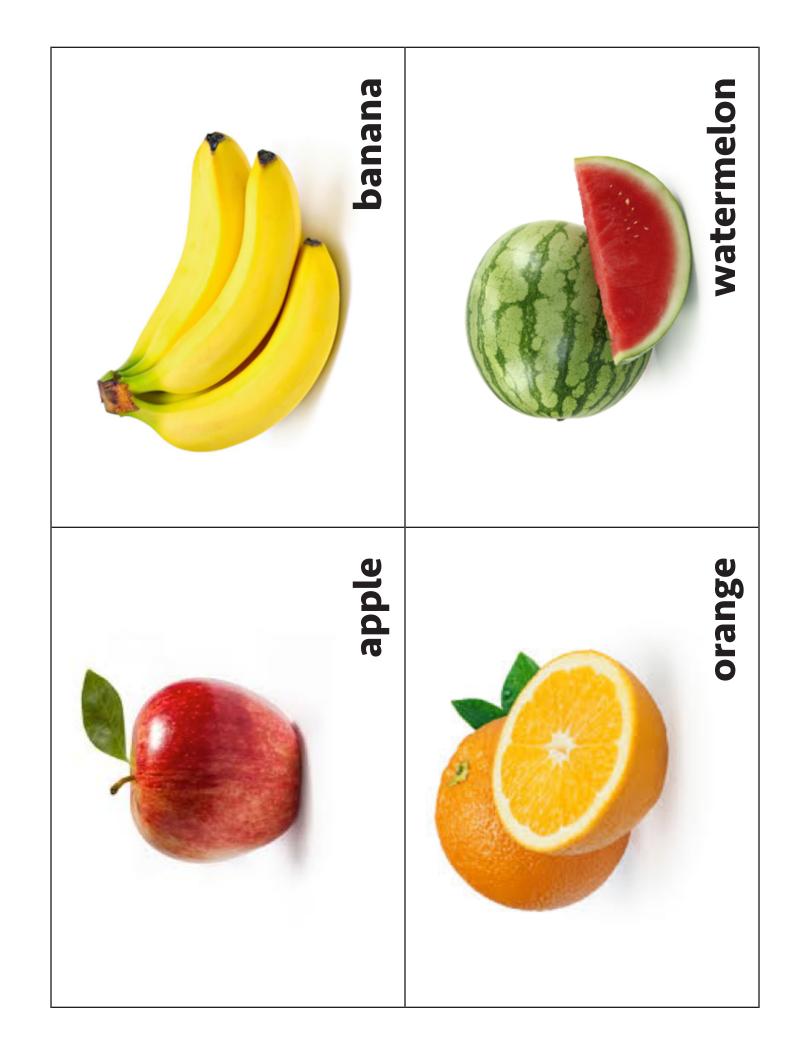


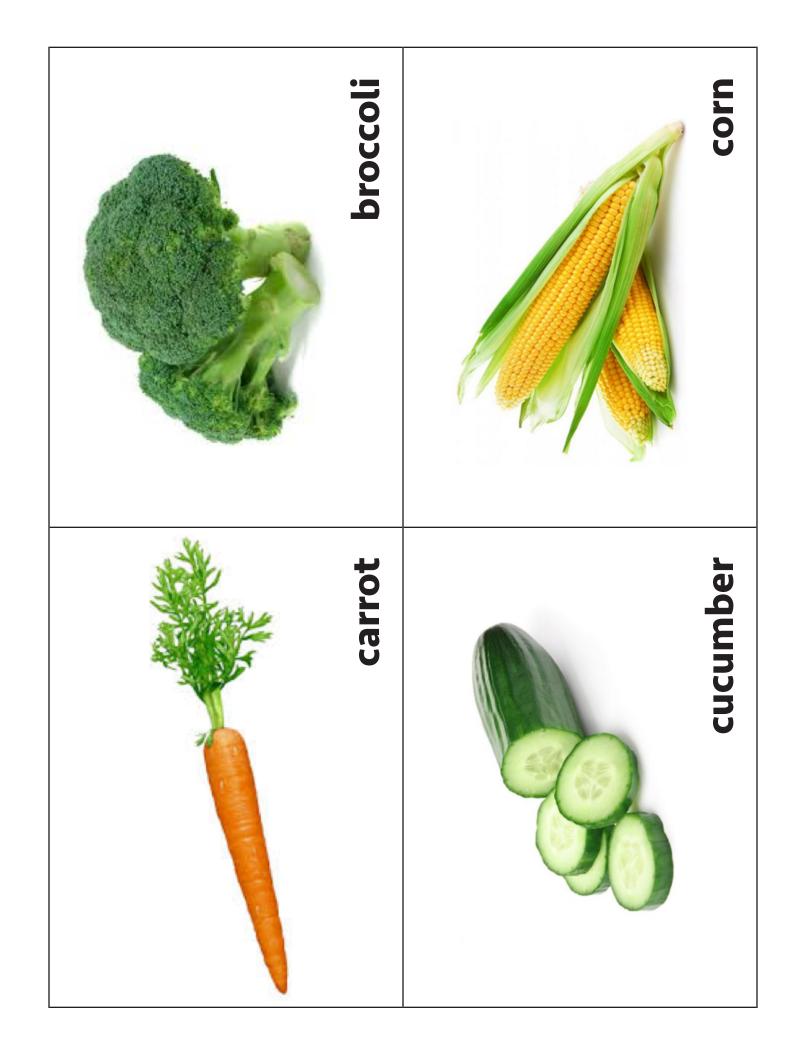
Drinks

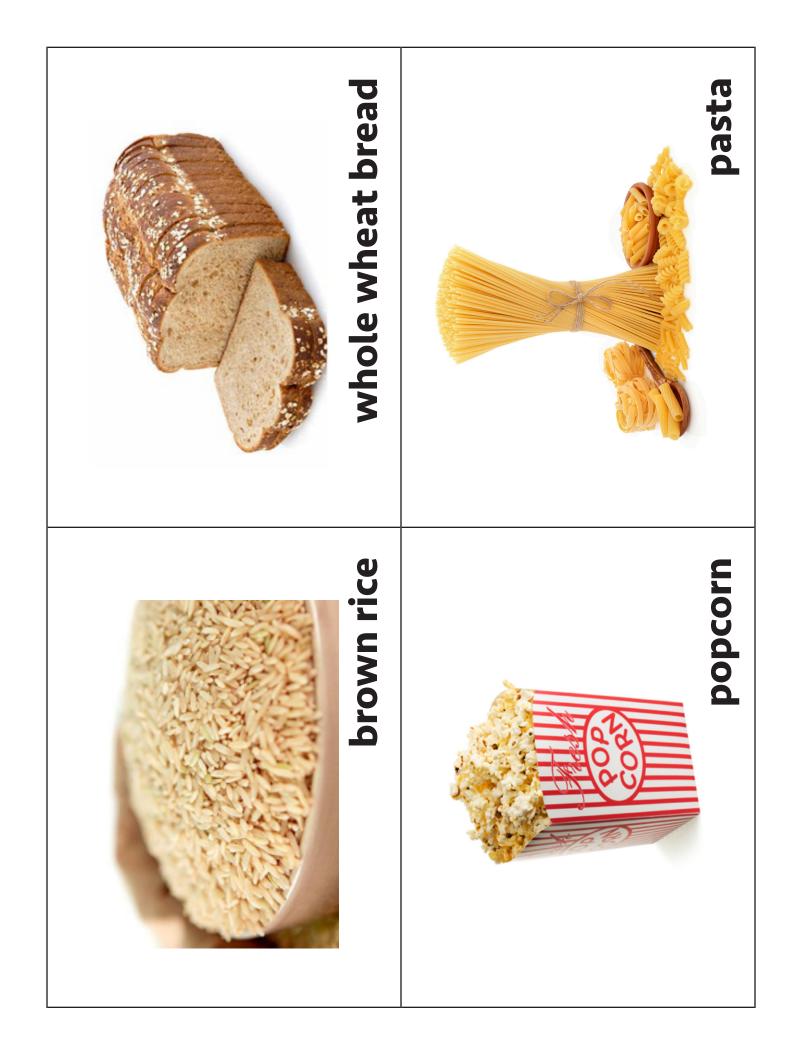
Water, fat-free or 1% milk, unsweet icetea.

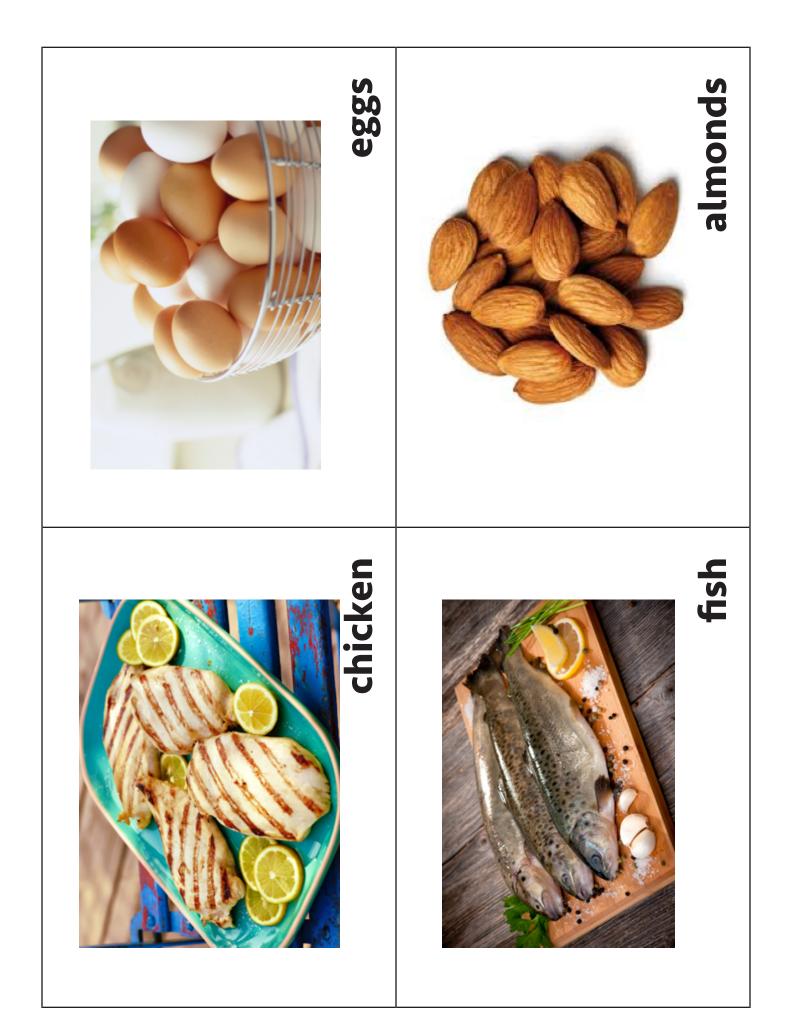
2% milk, 100% fruit juice, sports drinks, natural lemonade.

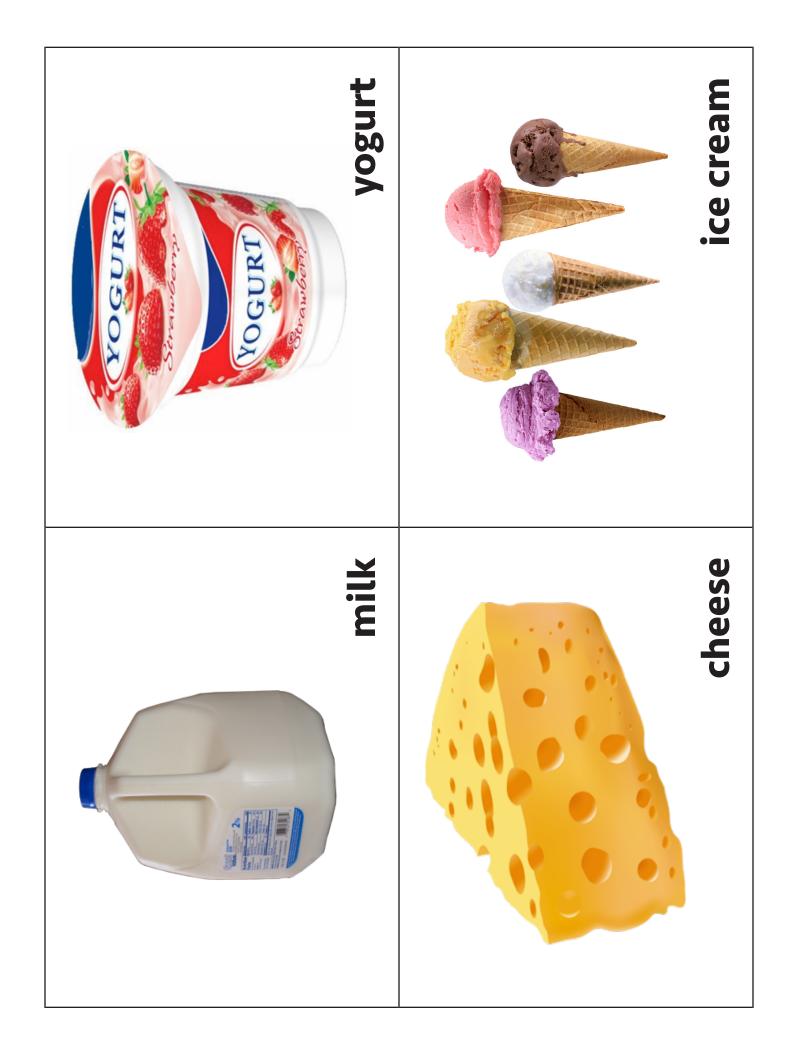
Soda, artificially flavored sweet tea and lemonade, fruit juice, whole milk.











Food Preparation



TIME:

20 to 30 minutes

MATERIALS NEEDED:

- 1 copy of crossword puzzle for each person
- Copies of recipes for each group

OBIECTIVES:

The 4-H member will:

- Learn food preparation terminology.
- Learn the purpose of food preparation methods and when to use each.
- Understand the steps for clean and healthy food preparation.

EXPLORE THE CONTENT:

What are the 8 methods of Healthy Food Preparation?

- **Baking** This is the method of placing food in a pan or dish into the oven. Baking does not require that you add extra fat to the food. If you want to make chicken breasts, season them and then stick them into the oven to bake.
- **Braising** This involves browning (searing) your ingredient first on top of the stove in a pan, then letting your ingredient slowly cook with a small quantity of liquid (such as water or broth) while partially covered. In some recipes, the cooking liquid is used afterward to form a flavorful sauce.
- **Broiling and grilling** Both of these methods expose food to direct heat. To grill, place the food on a grill rack above a heat source. For broiling, place food on a broiler rack below a heat source. Both of these methods allow the fat in your food to drip away. When barbequing outside grill the meat in a barbeque pit.
- **Poaching** For this method, gently simmer ingredients in water or broth until the food is fully cooked and tender. For example, after seasoning chicken, poach it in water to make it tender.
- Roasting This method is like baking but in higher temperatures. This method uses the oven's dry heat to cook the food producing a well-browned surface with juices sealed into meats. Vegetables and firm fruits such as apples, can also be roasted.
- **Sautéing** This method cooks food quickly in a small amount of oil in a pan over direct heat. When sautéing vegetables, like onion and garlic, before adding to a soup or casserole, you want to ensure you use a pan large enough to hold all the food in one layer.
- **Steaming** This is one of the simplest methods. Steam your food in a perforated basket suspended above simmering liquid. If the liquid is flavorful the food will have that flavor as well. Just be sure the cooking water does not run dry. Steaming food is a healthy cooking option as it doesn't require fat to be added and helps preserve the vitamins and minerals in the food.
- Stir-frying This method is a traditional Asian method. Stirfrying involves cooking small pieces of food while they're rapidly stirred in a wok or large nonstick frying pan. This method only needs a small amount of oil or cooking spray. Add vegetables and a protein of your choice to a pan in oil and make a stir fry.



Steps for clean and healthy food preparation

- Step 1: Source your ingredients. Make sure you have all of your ingredients before you start cooking.
- Step 2: Wash your hands. Your hands can spread bacteria easily which is why it's important to wash your hands before, during, and after cooking.
- Step 3: Keep your worktops and cooking materials clean. Don't forget to change out your dish cloths regularly because they can harbor bacteria.
- Step 4: Separate raw meat/fish from dry/ready prepared ingredients. Keep raw meats away from foods that are ready for consumption.
- Step 5: Where relevant, wash, peel, chop and grate ingredients before you start cooking.
- Step 6: Clean up as you go along so that you keep work surfaces clean and manageable.

DO:

Activity 1: Crossword Puzzle

At the end of the educational lesson, pass out a copy of the puzzle for each student to complete. Give them 7 minutes to try and complete it without notes, if they still aren't done with the puzzle once the 7 minutes are over, allow them to use their notes.

Activity 2: Preparation Steps

Hand out the recipes that are attached on page 5. Allow the students to work in groups of 3 to 4 and have them put the steps of preparation in order.

Activity 3: Ingredients Food Preparation

Give the children a list of ingredients from a recipe and work in groups of 3 to 4 to determine what methods of food preparation they would use and why.

REFLECT:

- What methods of food preparation are you most familiar with?
- What methods of food preparation are you not very familiar with?
- What method of food preparation do you use most often when cooking?
- What is a popular food preparation technique not mentioned in the lesson? Why do you think it was left out?

APPLY:

- Why is the order of food preparation important?
- What methods of food preparation have you used when cooking at home?
- Do you follow the steps for healthy and clean food preparation at home? Why is this important?
- Should a restaurant or cafeteria use similar food safety steps? Why or why not?

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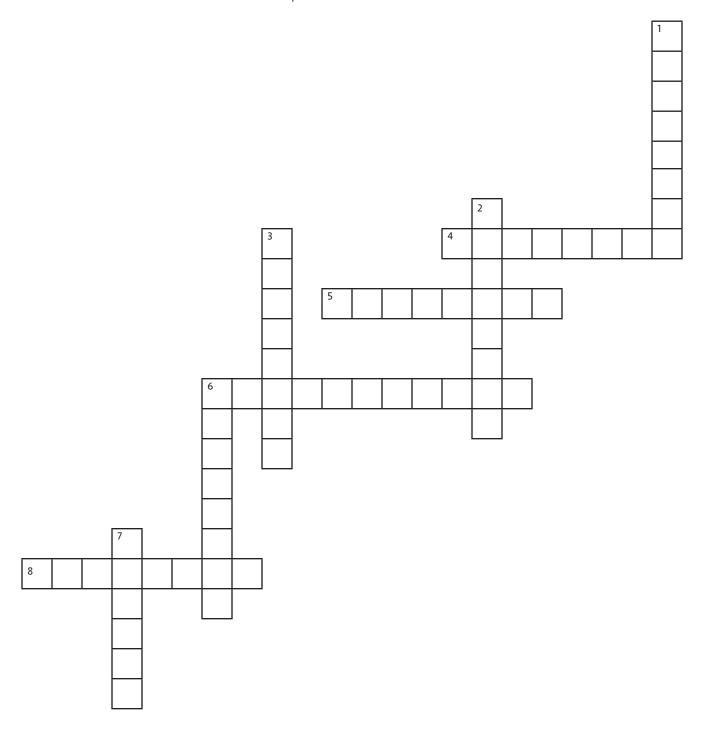
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Name:

FOOD PREPARATION

Complete the crossword below



ACROSS

- 4. rack of food is above the heat source
- 5. this method is like baking but in higher temperature
- 6. traditional Asian method
- 8. suspended; never touches water

DOWN

- 1. gently simmer ingredients in water or broth until tender
- 2. rack of food is below the heat source
- 3. browning ingredients first then letting it slowly cook in liquid
- 6. cooks food quickly in small amount of oil
- 7. placing food in the oven

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PREPARATION STEPS

CHICKEN PARMIGIANA

Directions

- 1. Place the breaded chicken in the hot oil to pan fry on the first side for about 3 minutes and get super crispy and golden. Flip over and cook for another 3 minutes to get just as crispy and golden on the other side. Remove them to a plate lined with paper towel.
- 2. Once the breading line is set up, fill a cast iron skillet with an inch and a half of canola oil and heat it over medium high heat to pan fry the chicken. While the oil gets hot put all 4 chicken breasts through the breading line. Use one hand to coat the chicken in the flour, the other hand to dip it in the egg wash mixture, then back to the first hand to coat it in the breadcrumbs. This keeps it as clean and neat as possible. Transfer the chicken to the plate once it is breaded.
- 3. Preheat oven to 350 degrees.
- 4. Set up the breading line for the chicken with three large, shallow bowls. In the first bowl mix together the flour, dried onion and dried oregano. In the second bowl whisk together the eggs, water and minced garlic. In the third bowl, mix together the breadcrumbs and parmesan cheese. Have a plate handy to hold the breaded chicken.
- 5. When time is up, remove the baking dish from the oven and let the chicken rest a minute. Sprinkle finely chopped fresh parsley on top for some green freshness. Serve immediately!
- 6. Move the chicken into a baking dish and top each piece with 1/4 cup of marinara sauce. Lay 2 slices of smoked mozzarella on each piece to finish assembling the chicken parmigiana. Place the baking dish in the oven and bake for 15 minutes.

Award Winning Soft Chocolate Chip Cookies

Directions

- 1. Bake for 10 to 12 minutes in the preheated oven. Edges should be golden brown.
- 2. Preheat oven to 350 degrees F (175 degrees C).
- 3. Beat in the instant pudding mix until blended.
- 4. Blend in the flour mixture.
- 5. Finally, stir in the chocolate chips and nuts.
- 6. Sift together the flour and baking soda, set aside.
- 7. In a large bowl, cream together the butter, brown sugar, and white sugar.
- 8. Stir in the eggs and vanilla.
- 9. Drop cookies by rounded spoonfuls onto ungreased cookie sheets.

Cheesy Chicken Pasta Bake

Directions

- 1. In a large pot, cook pasta to al dente according to package directions. Complete additional recipe steps while pasta is cooking.
- 2. Place chicken in the same nonstick skillet and cook until no longer pink (about 3 to 6 minutes, depending on the size of the pieces).
- 3. Add cooked vegetables and stir.
- 4. Pour in pasta sauce, Greek yogurt, and 1 cup cheese, and stir until combined.
- 5. Combine cooked pasta with chicken and vegetables.
- 6. Pour into prepared baking dish. Sprinkle with remaining cheese and cover with foil to bake for 10 minutes.
- 7. Remove foil and bake for an additional 5 minutes, or until cheese is melted and bubbly.
- 8. Preheat oven to 375 degrees F. Spray a 13x9-inch baking dish with cooking spray and set aside.
- 9. Heat oil in a large nonstick skillet. Add onions and pepper, and cook for 5 minutes, or until softened. Add garlic and cook for one minute, or until fragrant. Move cooked vegetables into a bowl and set aside.

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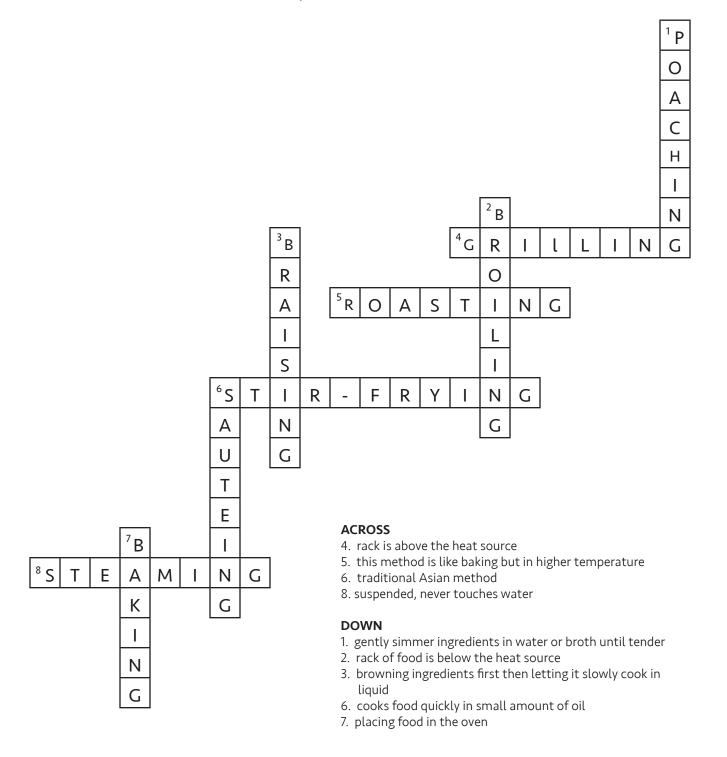
INGREDIENTS & FOOD PREPARATION ACTIVITY

Create a recipe using the ingredients listed below.

What method of food preparation should be used for each ingredient?	Write out preparation steps for the recipe
Ingredient: 4 Mission Artisan Corn & Whole Wheat Blend	Tortillas
Ingredient: 8 oz. Sirloin steak	
Method:	
Ingredient: ½ cup Teriyaki marinade	
Method:	
Ingredient: ½ cup cucumber	
Method:	
Ingredient: ½ cup carrots	
Method:	
Ingredient: ½ tsp. fresh ginger	
Method:	
Ingredient: ½ tsp. sesame seeds	
Method:	

FOOD PREPARATION - ANSWERS

Complete the crossword below



PREPARATION STEPS - ANSWERS

Chicken Parmigiana: 3, 4, 2, 1, 6, 5

Award winning soft Chocolate Chip Cookies: 2, 6, 7, 3, 8, 4, 5, 9, 1

Cheesy Chicken Pasta Bake: 8, 1, 9, 2, 3, 5, 4, 6, 7

Food Substitutions



TIME:

25 to 30 minutes

MATERIALS NEEDED:

Printed copies of recipes

OBJECTIVES:

The 4-H member will:

- Learn why food substitutions are important to a healthy diet.
- Be able to list at least 5 or more food substitutions to create a dish that is healthier

EXPLORE THE CONTENT:

What is a Food Substitution?

Food substitution is the simple art of altering a recipe to make it healthier. There are many ways to create healthy food recipes by just replacing one simple ingredient and not having to sacrifice taste and enjoyment. Below are a few examples of food substitutions.

Simple Food Substitutions

Instead of	Try this
Butter, margarine, shortening or oil in baked goods	Applesauce or prune puree for half of the called-for-butter, or butter spreads that don't have trans fats
Eggs	Two egg whites
Pasta, enriched (white)	Whole-wheat pasta, Veggie pasta
Sour cream, full fat	Fat-free or low-fat sour cream, plain fat-free or low fat yogurt
Regular ground beef	Lean ground beef or lean ground turkey
Whole milk	1% milk or skim milk
Flour, all-purpose (plain)	Whole-wheat flour for half of the recipe and all-purpose for the other half
Bread crumbs, dry	Rolled oats or crushed bran cereal
Butter, margarine, shortening or oil to prevent sticking	Cooking spray or nonstick pans
Sugar	Reduce the amount of sugar by one- half; intensify sweetness by adding vanilla, nutmeg, or cinnamon
White bread	Whole-grain bread



DO:

Divide the students into three evenly split teams. Give each team a recipe and have them make at least 3 substitutions to make it a healthier option. Allow the students about 7 minutes to brainstorm. Once they are finished, instruct each group to present what they came up with.

REFLECT:

- What were some obvious food substitutions you made?
- What were some potential food substitutions that were harder to identify?

APPLY:

- Are there any food substitutions you commonly use at home?
- Why is it important to make food substitutions when cooking?
- What other dishes can you think of that would be healthier if food substitutions were made? What might a substitution be for these dishes?

RFFFRFNCFS:

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^{***}Recipes are attached or any recipe may be used.

CHICKEN PARMIGIANA

Ingredients

FOR THE CHICKEN

34 cup All-purpose flour 1/2 teaspoon Dried onion

½ teaspoon Dried oregano

2 whole Eggs 1 dash Water ½ tablespoon Minced garlic

34 cup Seasoned breadcrumbs

1 tablespoon Freshly grated parmesan cheese

4 Whole boneless skinless chicken breasts

Canola Oil as much needed for pan frying

FOR ASSEMBLING THE CHICKEN PARMIGIANA

- 1 jar homemade marinara
- 8 slices mozzarella
- fresh parsley finely chopped as needed for garnish

Instructions

- 1. Preheat oven to 350 degree F.
- 2. Set up the breading line for the chicken with three large, shallow bowls. In the first bowl mix together the flour, dried onion and dried oregano. In the second bowl whisk together the eggs, water and minced garlic. In the third bowl, mix together the breadcrumbs and parmesan cheese. Have a plate handy to hold the breaded chicken.
- 3. Once the breading line is set up, fill a cast iron skillet with about an inch and a half of canola oil and heat it over medium high heat to pan fry the chicken. While the oil gets hot put all 4 chicken breasts through the breading line. Use one hand to coat the chicken in the flour, the other hand to dip it in the egg wash mixture, then back to the first hand to coat it in the breadcrumbs. This keeps it as clean and neat as possible. Then just transfer the chicken to the plate once it is breaded.
- 4. Place the breaded chicken into the hot oil to pan fry on the first side for about 3 minutes and get super crisp and golden. Flip over and cook for another three minutes to get just as crispy and golden on the other side. Remove them to a plate lined with paper towel.
- 5. Move the chicken into a baking dish and top each piece with a 1/4 cup of marinara sauce. Lay 2 slices of smoked mozzarella on each piece to finish assembling the chicken parmigiana. Place the baking dish in the oven and bake for 15 minutes.
- 6. When time is up, remove the baking dish from the oven and let the chicken rest a minute. Sprinkle finely chopped fresh parsley on top for some green freshness. Serve immediately!

AWARD WINNING SOFT CHOCOLATE CHIP COOKIES

Ingredients

4 1/2 cups All-purpose flour 2 packages Instant vanilla pudding mix

2 teaspoons Baking soda 4 Eggs

2 cups Butter, softened 4 cups Semisweet chocolate chips

11/2 cups Brown sugar (packed) 2 cups Chopped walnuts

1/2 cup White sugar

Instructions

- 1. Preheat oven to 350 degrees F (175 degrees C).
- 2. Sift together the flour and baking soda, set aside.
- 3. In a large bowl, cream together the butter, brown sugar, and white sugar.
- 4. Beat in the instant pudding mix until blended.
- 5. Stir in the eggs and vanilla.
- 6. Blend in the flour mixture.
- 7. Finally, stir in the chocolate chips and nuts.
- 8. Drop cookies by rounded spoonfuls onto ungreased cookie sheets.
- 9. Bake for 10 to 12 minutes in the preheated oven. Edges should be golden brown.

CHEESY CHICKEN PASTA BAKE

Ingredients

1 box (16 oz)	Pasta	1 pound	Boneless, skinless chicken breast,
1 tablespoon	Oil		cut into bite-sized pieces
1	Yellow onion, chopped	1 jar (32 oz)	Pasta sauce
1	Red bell pepper, chopped	½ cup	Nonfat Greek yogurt
2	Cloves garlic, minced	2 cups	Italian cheese blend, shredded & divided

Instructions

- 1. Preheat oven to 375F degrees. Spray a 13x9-inch baking dish with cooking spray and set aside.
- 2. In a large pot, cook pasta to al dente according to package directions. Complete additional recipe steps while pasta is cooking.
- 3. Heat oil in a large nonstick skillet. Add onions and pepper, and cook for 5 minutes, or until softened. Add garlic and cook for one minute, or until fragrant. Move cooked vegetables into a bowl and set aside.
- 4. Place chicken in the same nonstick skillet and cook until no longer pink (about 3 to 6 minutes, depending on the size of the pieces).
- 5. Add cooked vegetables and stir.
- 6. Combine cooked pasta with chicken and vegetables.
- 7. Pour in pasta sauce, Greek yogurt, and 1 cup cheese, and stir until combined.
- 8. Pour into prepared baking dish. Sprinkle with remaining cheese and cover with foil to bake for 10 minutes.
- 9. Remove foil and bake for an additional 5 minutes, or until cheese is melted and bubbly.

SUBSTITUTIONS FOR RECIPES

Chicken Parmigiana

Instead of	Try this
All-purpose flour	Substitute half with whole wheat flour
Eggs	Egg whites
Bread crumbs	Rolled oats or crushed bran cereal
Freshly grated parmesan cheese	Fat free or reduced calorie cheese
Mozzarella	Part-skim, low moisture mozzarella cheese

Award Winning Soft Chocolate Chip Cookies

Instead of	Try this	
All-purpose flour	Substitute half with whole wheat flour	
Butter, softened	Applesauce or prune puree/ butter spreads that don't have trans fats	
Brown sugar/ white sugar	Reduce the amount of sugar by one-half and intensify sweetness by adding vanilla, nutmeg or cinnamon	
Eggs	Egg whites	
Semisweet chocolate chips	Sugar free chocolate chips	

Cheesy Chicken Pasta Bake

Instead of	Try this
White pasta	Whole wheat pasta
Cheese	Fat-free cheese or reduced calorie cheese

Keeping Food Safe



TIME:

30 minutes

MATERIALS NEEDED:

- Fluorescent lotion (1 tsp per child)*
- Ultraviolet (UVA) black light*
- Sink with warm water
- Soap
- Paper towels
- Nail brushes (optional)

*If not available, use cooking oil on their hands and then sprinkle them with cinnamon. Have participants follow the same hand-washing procedure for the activity, with cinnamon representing the germs.

OBJECTIVES:

The 4-H member will:

- Learn the four core principles of food
- Learn how to thoroughly wash hands to eliminate bacteria.
- Practice proper and thorough hand washing.

EXPLORE THE CONTENT:

Four Core Principles of Food Safety

Clean: Wash hands and surfaces often.

Bacteria can be spread throughout the kitchen and get onto hands, cutting boards, utensils, counter tops and food. When preparing food, one should always:

- Wash your hands with warm water and soap for at least 20 seconds before and after handling food and after using the bathroom, changing diapers and handling pets.
- Wash your cutting boards, dishes, utensils, and counter tops with hot soapy water after preparing each food item and before you go on to the next food.
- Consider using paper towels to clean up kitchen surfaces. If you use cloth towels wash them often in the hot cycle of your washing machine.
- Rinse fresh fruits and vegetables under running tap water, including those with skin and rinds that are not eaten.
- Rub firm-skin fruits and vegetables under running tap water or scrub with a clean vegetable brush while rinsing with running tap water.

Separate: Don't cross-contaminate.

Cross-contamination is how bacteria can be spread. When handling raw meat, poultry, seafood and eggs, keep these foods and their juices away from ready-to-eat foods. Always start with a clean scene—wash hands with warm water and soap. Wash cutting boards, dishes, countertops and utensils with hot soapy

- Separate raw meat, poultry, seafood and eggs from other foods in your grocery shopping cart, grocery bags and in your refrigerator.
- Use one cutting board for fresh produce and a separate one for raw meat, poultry and seafood.
- Never place cooked food on a plate that previously held raw meat, poultry, seafood or eggs.

Cook: Cook to the proper temperature.

Food is safely cooked when it reaches a high enough internal temperature to kill the harmful bacteria that cause foodborne illness.

- Use a food thermometer to measure the internal temperature of cooked meat, poultry and egg dishes to make sure that the food is cooked to a safe internal temperature.
- Cook roasts and steaks to a minimum of 145F. All poultry should reach a safe minimum internal temperature of 165 F as measured with a food thermometer. Check the



internal temperature in the innermost part of the thigh and wing and the thickest part of the breast with a food thermometer.

- Cook ground meat, where bacteria can spread during grinding, to at least 160 F. Eating undercooked ground beef is linked to a higher risk of illness. Remember, color is not a reliable indicator of doneness.
- Cook eggs until the yolk and white are firm, not runny.
- Cook fish to 145 F or until the flesh is opaque and separates easily with a fork.
- Make sure there are not cold spots in food when cooking in a microwave oven. For best results, cover food, stir and rotate for even cooking.
- Bring sauces, soups and gravy to a boil when reheating. Heat leftovers thoroughly to 165 F.

Chill: Refrigerate promptly.

Refrigerate foods quickly because cold temperatures slow the growth of harmful bacteria. Do not over-stuff the refrigerator. Cold air must circulate to help keep food safe. Keeping a constant refrigerator temperature of 40 F or below is one of the most effective ways to reduce the risk of foodborne illness. Use an appliance thermometer to be sure the temperature is consistently 40 F or below. The freezer temperature should be O F or below.

- Refrigerate or freeze meat, poultry, eggs and other perishables as soon as you get them home from the store.
- Never let raw meat, poultry, eggs, cooked food or cut fresh fruits or vegetables sit at room temperature more than two hours before putting them in the refrigerator or freezer (one hour when the temperature is above 90 F).
- Never defrost food at room temperature. Food must be kept at a safe temperature during thawing. There are three safe ways to defrost food: in the refrigerator, in cold water, and in the microwave. Food thawed in cold water or in the microwave should be cooked immediately.
- Always marinate food in the refrigerator.
- Divide large amounts of leftovers into shallow containers for quicker cooling in the refrigerator.
- Use or discard refrigerated food on a regular basis.

DO:

Please note: this activity requires a darkened environment (a place where lights can be turned off).

As you begin the activity, remind youth of the key points of hand washing.

- Bacteria are on our hands even if we do not see them.
- Wash hands well before eating or handling food to avoid getting yourself or others sick.
- Wash hands immediately after handling any raw meat or eggs.
- Wash hands for at least 20 seconds, typically how long it takes to sing "Happy Birthday" or the alphabet.
- Wash hands thoroughly and often.
- Prior to the activity, ask youth if they can tell how clean their hands are by how they look.
- 2. Have them touch the bottom of their shoes and then look at their hands to see if they can tell how clean they are by how they look.
- 3. Give each child fluorescent lotion on their hands and have them rub it into their skin.
- 4. Then, have each child wash their hands with cold water (no soap).
- 5. Provide the ultraviolet light for youth in a darkened environment to see if any lotion is on their hands.
- 6. Have each youth wash their hands again, but this time with warm, soapy water at the sink for at least 20 seconds. If available, provide each with a nail scrub brush to use.
- 7. Provide the ultraviolet light for youth in a darkened environment to see if any lotion is on their hands, comparing it with what was left on their hands after the first washing.



REFLECT:

- What did you see after the first time you washed your hands with cold water and no soap?
- What did you see on your hands after you washed your hands a second time with warm, soapy water for 20 seconds?
- Can you tell how clean your hands are by how they look?

APPLY:

- Why is it important to wash your hands well before eating or handling food?
- How will this information be useful when participating in the food challenge?
- How is this information important to food service workers in cafeterias or restaurants?

REFERENCES:

- Fight Bac! Partnership for Food Safety Education: The core four practices. Taken from: www.fightbac.org/food-safety-basics/the-core-four-practices/
- University of California: Department of Nutrition (January 2012). Healthalicious Cooking: Learning about Food and Physical Activity, Lesson 1. Publication 8450.

Food Garnishing



TIMF:

30 to 35 minutes

MATERIALS NEEDED:

Any of the following:

- Vegetable peeler
- Zucchini
- Carrots
- Chocolate bar
- Deviled eggs (ingredients)
- Salsa (ingredients)
- Lemons
- Gremolata (ingredients)
- **Pipers**
- **Tomatoes**
- Radishes

OBJECTIVES:

The 4-H member will:

- Learn why garnishing is an important part of cooking.
- Be able to list at least 2 or more ways to garnish a plate.
- Be able to garnish their plate more efficiently.

EXPLORE THE CONTENT:

What is Food Garnishing?

Food garnishing is adding a decorative piece of an edible ingredient such as parsley, lemon wedges, croutons or chocolate curls as a finishing touch to a dish or drink. There are many ways to garnish your food, and you have to be able to use your imagination and creative side.

Ways to garnish food

- Add curls & twirls: use a vegetable peeler to shave large curls of any food you want. This can vary from cheese to fruits or even chocolate. Some examples include: topping salads or pasta dishes with curls of parmesan, arranging chocolate curls on top of a cake or cupcakes, or making twirls with carrots and zucchini.
- Add Gremolata: you can top your entrees and soups with gremolata. This is an Italian garnish consisting of chopped parsley, garlic and lemon peel. You can try other combinations so that it compliments the main dish. For example: minced lime peel, cilantro, and toasted coconut on top of grilled shrimp or minced lemon peel, basil and shallot on top of baked chicken.
- Add chives: use chives to garnish any savory dish. You can use them whole or cut them into shorter sections.
- Slices and sprigs: lemon or lime halves paired with a sprig of cilantro or parsley will add a simple splash of color to your plate.
- Add specks of color: stir chopped fresh herbs into cooked rice or add avocado slices to brown rice.
- Piping: this can be used for other foods, not just dessert. Make deviled eggs with the help of piping. You can pipe food by filling a piping bag with an ingredient (chocolate, mayonnaise, etc.) and snipping off the tip. Then you are able to draw any shape that you would like on a cake or on your deviled eggs.
- Salsa: make salsas out of fruits or vegetables that compliment the entrée and top the main dish with the salsa. For example: stir together fresh corn, diced red pepper, green onions and a little lime juice. This will add both flavor and color to your
- Skewers: use large toothpicks or small wooden skewers to present the food that is complementary to the main dish. For example: thread pieces of cooked sausage and cubes of crusty bread onto the toothpicks and serve with hearty bean soups.



DO:

Cooking Demonstration

For this activity, you will demonstrate to the children a few examples of simple garnishing.

- Curls & Twirls using a vegetable peeler.
- How to make gremolata (Italian garnish consisting of chopped parsley, garlic, and lemon peel) then place it on a chicken breast.
- How to make deviled eggs by piping.
- How to make a salsa and add it as a topping to the chicken breast.
- Adding slices and sprigs to an entrée.

Throughout this lesson, ask the children what they think would look good on certain plates.

Once you are done with the demonstration, allow the students to practice the garnishing skills that were demonstrated.

REFLECT:

- What were some easy garnishes you tried making?
- What garnishes were harder to make?
- What are some other ideas for garnishing that you have?

APPLY:

- Why is garnishing important?
- What is your favorite garnishing technique?
- How and why do restaurants use garnishes?

REFERENCES:

- Campbell's Kitchen (n.d.). Top Ten Garnishes. Retrieved on March 9, 2015, from http://www.campbellskitchen.com/cookingtips/gettingcreative/top%20ten%20garnishes.
- BBC (n.d.). How to pipe chocolate decorations. Retrieved on April 7, 2015, from http://www.bbc.co.uk/food/techniques/how to pipe chocolate decorations.

Cost Analysis



TIME:

35 to 40 minutes

MATERIALS NEEDED:

- 2 sets of 3-by-5-inch cards. Sets are designated by common color.
- 2 labeled containers (large brown bags will work fine)
- Pencils

OBIECTIVES:

The 4-H member will:

- Learn to figure cost analysis.
- Learn how to determine cost of amount of ingredient used.
- Learn how to figure total cost of dish.
- Learn how to figure cost per serving

EXPLORE THE CONTENT:

What is cost analysis?

Cost analysis helps us compare price based on the unit versus the whole item. Figuring the cost analysis helps us understand how much a serving or single item costs instead of the whole ingredient package.

Why is cost analysis used?

Cost analysis is used to determine the cost of each portion of the meal that you are cooking. It also helps you determine the total cost of dish as well as cost per serving. This is important so that you won't buy too many ingredients and let them go to waste. Cost analysis can also help you save money if you do it correctly.

How to figure cost analysis

Figuring cost analysis is simple. All you have to do is divide the total cost of the item by the number contained in the package. The nutrition facts label will display this information. Once you are done doing this, you know how much each item cost.

Cost Analysis Formula:

Total Cost / # in package = Cost per serving/unit

Examples of cost analysis:

Eggs:

A carton of eggs costs \$2.19. There are 12 eggs in each carton.

To figure out the cost per egg, divide 2.19 by 12. 2.19/12 = .1825

The cost would be 18 cents per egg.

If the recipe you are using calls for 3 eggs, then you multiply .18 by 3. 3 X .18 = .54

The total cost of the three eggs to make your recipe is 54 cents.

Bread:

A loaf of bread costs \$1.49.

There are 22 slices in each loaf. Use the formula. 1.49/22 = .07 per slice

If you used 6 slices of bread, then you multiply .07 X 6 = .42 cents. The total cost of the 6 slices of bread would be 42 cents.



DO:

Educational Relay

Preparation: Prepare a set of cards for each team (two teams with 15 to 20 cards each). Each set of cards should be the same. Containers can be made for each team to place their cards into once they are done solving the problem (large brown bags work fine), or each team can just create a stack of completed cards.

Rules:

- Divide youth into two (2) teams, and clear the room to allow running a relay. Please note: you may need more teams depending on the number of participants.
- 2. Each student must start behind a line, pick up a card, talk to their team and solve the cost analysis problem together. Use the pencil that is provided, write down their answer on the card, and then run to place it in the container/bag.
- 3. They must return to tag the next person in line, and repeat step 2 until all cards are used.
- 4. The winning team (first to deposit all of their cards in the containers) receives 5 points for best speed; the second team will receive 3 points.
- 5. The instructor will go to the containers and remove the cards, checking with the groups for correct answers. This can also be done by using an "honest system" and having each team indicate whether they figured the cost analysis correctly and keeping track of their points. The instructor should talk through each problem with the youth. Each correct answer is worth one (1) point.
- 6. The team with the highest point total wins.

Example index cards are on the following pages.

REFLECT:

- When doing the relay, was figuring the cost analysis harder than you thought?
- What were some of the more difficult items to figure cost?
- Why is it important to figure cost analysis?

APPLY:

- Would you figure cost analysis when preparing a meal at home? Why or why not?
- If you compared costs, do you spend more money preparing food at home or by eating food prepared for you? Why or why not?
- When is a time you might choose to eat food prepared for you rather than prepare it at home? Why?

REFERENCES:

- Gilbert, G. G., Sawyer, R. G., & McNeill, B. (2011). Methods of instruction/intervention. Health Education: Creating Strategies for School and Community Health (3rd Ed) (pp. 127-128). Sudbury, Mass: Jones and Bartlett Publishers. Adapted by Abby Melendez (2015).
- McVety. (2009). Determining portion costs and selling prices (pp. 91-92). Kendall Hunt Publishing. Adapted by Abby Melendez (2015).



Servings Per Container About 28 Serving Size 15 crackers (16g)

Amount Per Serving

Calories from Fat 35 **Calories** 80

Example 1:

If the cost of Ritz crackers is \$3.27, what is the cost per serving?

If the cost of Domino

Nutrition Facts

Servings Per Container About 132

Amount Per Serving

Calories

Serving Size 1 Tsp (3g)

Example 2:

Answer: \$

Nutrition Facts

Servings Per Container 20 Serving Size 1 slice (28g)

Amount Per Serving

Calories from Fat 45 Calories 70

Answer: \$

Nutrition Facts If the cost of Nature's

Example 3:

Own Whole Wheat Bread is \$2.89, what is the cost

per serving?

Servings Per Container 12 Serving Size 1 egg (50g)

eggs is \$2.49, what is the If the cost of a carton of

Example 4:

cost per serving?

Amount Per Serving

Calories from Fat 45 Calories 70

Answer: \$

Sugar is \$2.49, what is the cost per serving? Answer: \$

Servings Per Container About 21 Serving Size 2 florets (85g)

Amount Per Serving

Calories from Fat 0 Calories 30

Example 5:

If the cost of frozen

Broccoli is \$1.47, what is the cost per serving?

Serving Size 2 oz (56g - about 1/6 box) Servings Per Container About 6

Amount Per Serving

Calories 200

Example 6:

Nutrition Facts

what is the cost per serv-Tri-Color Rotini is \$1.69, If the cost of Barilla ing?

Calories from Fat 10

Answer: \$

Answer: \$

Amount Per Serving

Calories 80

Calories from Fat 70

Nutrition Facts

Serving Size 2 Tbsp (30mL) Servings Per Container 35

Answer: \$

Nutrition Facts

Serving Size 1 oz (28g/About 32 chips) Servings Per Container About 11

\$2.78, what is the cost per Valley Ranch Dressing is

serving?

If the cost of Hidden

Example 7:

Fritos Original Corn Chips

If the cost of a bag of

Example 8:

is \$3.98, what is the cost

per serving?

Amount Per Serving

Calories 160

Calories from Fat 90

Answer: \$

Servings Per Container 4 Serving Size 4 oz (112g)

Amount Per Serving

Calories from Fat 70 Calories 170

Example 9:

package of ground beef is \$5.47, what is the cost per If the cost of a one pound serving?

Answer: \$

Nutrition Facts

Example 11:

Servings Per Container 2 Serving Size 1 cup (240g)

Amount Per Serving

Calories 90

Calories from Fat 15

Answer: \$

Nutrition Facts

If the cost of a half gallon of chocolate milk is \$1.92,

Example 10:

what is the cost per

serving?

Servings Per Container 8 Serving Size 1 cup (249g)

Amount Per Serving

Calories from Fat 80 Calories 210

Answer: \$

Nutrition Facts

Servings Per Container 5 Serving Size 1 bar (40g)

\$1.58, what is the cost per chicken noodle soup is If the cost of a can of

serving?

Amount Per Serving

Calories from Fat 30 Calories 140

Answer: \$

Example 12:

\$2.50, what is the cost per Fiber One granola bars is If the cost of a box of serving?

Serving Size 1/2 cup (120g) Servings Per Container About 6

Amount Per Serving

Calories 70 Calories from Fat25

Example 13:

If the cost of a jar of spaghetti sauce is \$3.93, what is the cost per serving?

Answer: \$

4

Nutrition Facts

Serving Size 1/2 cup (55g) Servings Per Container About 8

Amount Per Serving

Calories 240 Calo

240 Calories from Fat 60

Answer: \$

| Nutrition Facts

Serving Size 8 fl. oz. (240mL) Servings Per Container 7

If the cost of a carton of orange juice is \$3.38, what

Example 14:

is the cost per serving?

Amount Per Serving

Calories 110 Calories from Fat 0

Answer: \$

Nutrition Facts

Servings Per Container About 8

Serving Size 3 oz (85g)

cereal is \$3.22, what is the

cost per serving?

If the cost of a box of

Example 15:

Amount Per Serving

Calories 170 Calories from Fat 110

Answer: \$

Example 16:

If the cost of a rotisserie chicken is \$6.99, what is the cost per serving?

Servings Per Container About 10 Serving Size 2 cookies (29g)

Amount Per Serving

Calories 140

Calories from Fat 60

Example 17:

of Oreo's is \$2.98, what is If the cost of a package the cost per serving?

Ben & Jerry's ice cream is \$3.97, what is the cost per

serving?

Calories from Fat 130

Calories 260

If the cost of a pint of

Nutrition Facts

Serving Size 1/2 cup (101g)

Servings Per Container 4

Amount Per Serving

Example 18:

Answer: \$

Answer: \$

Nutrition Facts

Servings Per Container About 75 Serving Size 1/4 cup (30g)

Amount Per Serving

Calories

Answer: \$

Example 19:

Medal's All Purpose Flour is \$2.46, what is the cost If the cost of Gold per serving?

Nutrition Facts

Serving Size 1 Pastry (52g) Servings Per Container 8

Amount Per Serving

Calories from Fat 50 Calories 200

Answer: \$

Example 20:

PopTarts is \$1.98, what is If the cost of blueberry the cost per serving?



NUTRITION COST PER SERVING ANSWERS

EXAMPLE	1	\$0.12	EXAMPLE	11	\$0.79
EXAMPLE	2	\$0.02	EXAMPLE	12	\$0.50
EXAMPLE	3	\$0.14	EXAMPLE	13	\$0.66
EXAMPLE	4	\$0.20	EXAMPLE	14	\$0.48
EXAMPLE	5	\$0.07	EXAMPLE	15	\$0.40
EXAMPLE	6	\$0.28	EXAMPLE	16	\$0.87
EXAMPLE	7	\$0.08	EXAMPLE	17	\$0.30
EXAMPLE	8	\$0.36	EXAMPLE	18	\$0.99
EXAMPLE	9	\$1.37	EXAMPLE	19	\$0.03
EXAMPLE	10	\$0.24	EXAMPLE	20	\$0.25





MARKING INSTRUCTIONS

4-H Explore **Project Book Evaluation - Food & Nutrition**

1. Please read the statement in the left column of the table below. Bubble in the circles that describe your level of understanding **BEFORE** attending this program. In the section on the far right, bubble in the circles that describe your level of understanding **AFTER** attending this program. You will have two bubbles per row.

LEVEL OF UNDERSTANDING: 1 = Poor, 2 = Average, 3 = Good, 4 = Excellent	BEFORE			AFTER				
As a result of participating in the Food & Nutrition project lessons and activities	1	2	3	4	1	2	3	4
I understand the basics of MyPlate and how to use it.	0	0	0	0	0	0	0	0
I understand the 8 methods of healthy food preparation	0	0	0	0	0	0	0	0
I understand how to keep food safe.	0	0	0	0	0	0	0	0
I understand why food substitutions are important to a healthy diet.	0	0	0	0	0	0	0	0
I understand how to create decorative garnishes for a plate.	0	0	0	0	0	0	0	0
I understand how to figure cost analysis.	0	0	0	0	0	0	0	0

2. For each statement below, fill in the bubble that best describes you.

INTENTIONS TO ADOPT: As a result of participating in the Food & Nutrition Project lessons and activities	Yes	No	Unsure
I will use MyPlate when cooking or selecting food to prepare healthy meals.	0	0	0
I plan to eat more fruit and vegetables.	0	0	0
I plan to utilitize the various food preparation methods when cooking.	0	0	0
I plan to incorporate healthy substitutions where possible.	0	0	0
I will always practice proper hand washing techniques, especially when cooking.	0	0	0
I can keep my food preparation space safe and sanitary.	0	0	0
I can garnish a dish to make it look nice.	0	0	0
I will take cost analysis into consideration when cooking.	0	0	0

3. For each statement below, fill in the bubble that best describes your level of agreement with the following statements.

BEHAVIOR CHANGES: As a result of participating in the Food & Nutrition Project lessons and activities	Strongly Disagree		Agree	Strongly Agree
I am more comfortable working in a team.	0	0	0	0
I am more willing to listen to others.	0	0	0	0
I am more comfortable speaking with others.	0	0	0	0
I am more confident in my abilities as a leader.	0	0	0	0
I understand the importance of delegating responsibilities within a team.	0	0	0	0

	CORRECT: ● INCORRECT: ☑ 🌣 🕒 🖱
What is the most significant thing you learned in the Food &	Nutrition project?
Please tell us about yours	elf.
Gender: O Female O Male	
I consider myself to be: O African American	O White
O Asian American O Native American	O Other
I consider myself to be: O Hispanic O Non-Hisp	anic
Grade: ○ 3rd ○ 5th ○ 7th ○ 9th ○ 11th ○ 4th ○ 6th ○ 8th ○ 10th ○ 12th	
Most of the time, you live	
	city between 50,000 //urban center with more than 50,000
Please provide any additional com	nments below.

3.

MARKING INSTRUCTIONS