



## Lakota: pšínkčeka

## **Lesson Plan**

#### **Objectives**

Participants will:

- identify garlic as a vegetable from MyPlate.
- increase knowledge in the growth, selection, storage and use of garlic.
- compare garlic to onions.
- demonstrate the use of garlic in a recipe.

#### **Items Needed for the Lesson**

- Visual of or actual garlic bulb to show the cloves and papery skin of garlic
- Clove of garlic and chefs knife to demonstrate removing the skin
- Garlic press
- Garlic powder

#### **Handouts or Take Home Items**

• Pick It! Try It! Like It! Preserve It! fact sheet

#### **Recipe Choices**

- Garlic and Herb Butter
- Orzo Garlic Chicken

#### **Cooking and Food Safety Skill Sheets**

- Handwashing
- Knife Safety and Cutting Boards
- Stove Top Safety

#### Other Cooking and Food Safety Skills

- Kitchen terms boil, chop and mince
- What wilted spinach looks like

#### Supplies for Garlic Lesson

- Garlic and Herb Butter
  - » Knife
  - » Cutting board
  - » Measuring cups
  - » Measuring spoons
  - » Bowl
  - » Spoon
  - » Plastic wrap
- Orzo Garlic Chicken
  - » Measuring cups
  - » Measuring spoons
  - » Knives
  - » Cutting boards
  - » Saucepan
  - » Skillet
  - » Spoon

What You Say:	What You Do:			
<ul> <li>Every class we're going to learn about a different fruit or vegetable. I'm going to give you some clues and I want you to try to think of what it is. After each clue, raise your hand if you think you know what it is.</li> <li>Brides in ancient Greece carried bouquets of this instead of flowers.</li> <li>It is a close relative of onions.</li> <li>Many cooks depend on this to flavor food.</li> <li>Folklore says that this was used to scare away vampires. (Answer: Garlic.)</li> </ul>	<ul> <li>Name off each clue; allow a few guesses before moving on to the next clue.</li> <li>After someone guesses the answer, or you tell them, show them visuals of Garlic.</li> </ul>			
Garlic is a member of the onion family.  Even though it is related to onions, it is very different from onions. Garlic is a cluster of cloves rather than one big bulb like an onion. Each cluster, or bulb, of garlic contains a dozen or more cloves. The larger outer cloves have the best flavor. The bulb is covered with a dry, loose, white outer skin.  The garlic plant is also different from onions because it has flat leaves and onions have round, hollow leaves.  Garlic and onions both grow underground.	Show visuals of or an actual bulb of garlic to show the size, make up of cloves and outer skin.			
What food group do you think garlic belongs to?	Call on someone who would like to answer.			
(Answer: Vegetable group.)  Garlic is considered a vegetable but it is not usually eaten by itself like other vegetables.  If garlic is not eaten by itself, how is it used?  (Possible answers: In stir-fries, soups, sauces, stews, salads, pickles, salad dressings, etc.)  Garlic is used to flavor and add a good smell to foods.	Allow discussion of the uses of garlic.			
There are two main types of garlic: Hardneck Garlic which has stems that are used like green onions for mild garlic flavor.  Softneck Garlic which is the common variety found in grocery stores. It can be stored for a long time.  You may have also heard of elephant garlic. Elephant garlic is related to leeks rather than to garlic. It is much larger than real garlic. The bulb can weigh up to 1 pound. Elephant garlic has a mild flavor. It is sometimes eaten raw or used as an appetizer.	Show visuals of the two main types of garlic pointing out their differences.			

What You Say:	What You Do:			
Have any of you ever tried growing garlic in your garden?	Allow discussion.			
Garlic is grown by planting cloves rather than seeds because the garlic plant does not produce true seeds.				
Garlic likes well-drained soil and full sunshine.				
When garlic is ready to be harvested, it is best to dig the bulbs from the soil rather than to pull them.				
The bulbs, with tops attached, need to dry in a well-ventilated room for about 2 weeks. After that, the tops should be removed, about 1 inch above the bulb. The bulb can then be stored in a cool, dry place for several months.				
If you are buying garlic at the grocery store, what might be some things that we want to look for?  Check for bulbs that are plump, firm and dry with tight skin. You may want to squeeze the garlic bulb	<ul> <li>Call on participants that would like to answer.</li> <li>Show a bulb of garlic that is firm.</li> <li>Demonstrate how to check the garlic by squeezing it between your fingers.</li> </ul>			
between your fingers to make sure that it is not soft.  Do not buy garlic that is shriveled, moldy or that has begun to sprout.				
How should we store garlic?  Fresh garlic should be stored in a covered or uncovered container in a cool, dark place. It should be kept away from heat and sunlight to prevent it from sprouting.	Call on someone who would like to answer.			
If garlic becomes soft or moldy, throw it away.  Before we use garlic, we must first remove the papery skin from the whole bulb of garlic. To do this quickly, separate all of the cloves and put them in a metal bowl. Place a lid on the bowl and shake the bowl for about 1 minute. This will peel the papery skin off from all of the cloves.	<ul> <li>Demonstrate removing the papery skin from a whole bulb of garlic using a bowl with a lid.</li> <li>Demonstrate how to remove the skin from one clove of garlic using a chefs knife.</li> </ul>			
To peel an individual clove of garlic, lay the clove under the flat side of a large chefs knife. Press the knife with the heel of your hand, until the clove and skin crack. This will loosen the clove of garlic from the skin and it can easily be removed.				

= for adults or older youth

What You Say:	What You Do:			
Garlic can be chopped, minced or crushed. The finer garlic is chopped, the more flavor it will give to foods. The flavor of garlic is strongest right after chopping.  You can chop and mince garlic with a sharp knife. You can also use a garlic press to mince garlic.	Show a garlic press and demonstrate how it is used.			
Sometimes our hands will smell like garlic after handling it. What can we do to help remove the smell from our hands?  (Answer: Try rubbing a cut lemon on our hands or pouring lemon juice on them to remove the smell.)	<ul> <li>Call on someone who would like to answer.</li> <li>Allow discussion.</li> </ul>			
We can also purchase garlic in powder form at the grocery store. It is located in the same section as other spices.  When substituting garlic powder for fresh garlic, in a recipe, we can use 1 teaspoon of garlic powder for 1 fresh garlic clove.				
Are you ready to try a recipe using garlic?  What is the first thing we need to do before preparing food?  (Answer: Wash our hands.)	Review Handwashing skill sheet.			

# Use this page if you are going to prepare Garlic and Herb Butter

#### **Equipment List**

Knife

- Measuring cups
- Bowl

• Plastic wrap

- Cutting board
- Measuring spoons
- Spoon

What You Say:	What You Do:
Today we are going to be making Garlic and Herb Butter.	Pass out the recipes and read aloud with participants.
Let's read through the recipe before we begin.	
We will be chopping the herbs that we have chosen and mincing the garlic.	Call on someone who would like to answer.
What do the cooking terms "chop" and "mince" mean?	
(Answer: Chop – to cut solids into pieces with a sharp knife or other chopping device. Mince – to	
cut or chop food into extremely small pieces.)	
We will be using a knife and cutting board to chop and mince.	Review Knife Safety and Cutting Boards skill sheet.
What are some things we need to remember about knives and cutting boards?	Show a garlic press and demonstrate how to use it.
We might also use a garlic press to mince the garlic.	
Has anyone used a garlic press before?	
The butter, herb, garlic, lemon juice, salt and pepper will all be mixed together.	
When we measure the lemon juice, it is best to measure it over another bowl rather than the bowl that contains the other ingredients. That way, if we overfill the measuring spoon, it will spill into the extra bowl, which prevents adding too much lemon juice to the Garlic and Herb Butter.	
Next it will be shaped into a roll, wrapped in plastic wrap and placed in the freezer.	
What are some foods we might use the garlic and herb butter on?  (Possible answers: Toast, bread, corn on the cob, vegetables, etc.)	Allow discussion of the use of Garlic and Herb Butter.

# Use this page if you are going to prepare Orzo Garlic Chicken

#### **Equipment List**

Measuring cups

Knives

Saucepan

• Spoon

Measuring spoons

Cutting boards

Skillet

What You Say:	What You Do:
Today we will be making Orzo Garlic Chicken. Let's	Pass out the recipes. Read aloud with
read through the recipe before we begin.	participants.
How many food groups are in this recipe?	Point to the MyPlate poster.
(Answer: 4. Orzo pasta - grain. Garlic and spinach	Call on participants to answer.
- vegetables. Chicken - protein. Parmesan	
cheese - dairy.)	
Which food group is missing?	
(Answer: Fruits.)	
We will be cooking the orzo pasta in boiling water.	Call on someone who would like to answer.
What does the cooking term "boil" mean?	
(Answer: To heat a liquid until bubbles break	
continually on the surface.)	
We will be chopping the parsley and mincing the	Discuss the cooking terms chop and mince.
garlic.	
What do the cooking terms "chop" and "mince"	
mean?	
(Answer: Chop is to cut food into small pieces.	
Mince is to cut or chop food into tiny pieces.)	
We will be using a knife and cutting board to chop	Call on participants.
and mince. What are some things we need to	Review Knife Safety and Cutting Boards skill
remember when using knives and cutting boards?	sheet.
We could also use a garlic press to mince the garlic.	Show a garlic press and demonstrate how to use
Have any of you seen or used a garlic press before?	it.
After the garlic, red pepper and chicken is cooked	Call on participants. Discuss how to tell when the
add parsley and orzo to the mixture. Next add	spinach is wilted.
spinach to the skillet. The recipe says to cook stirring	
occasionally, until the spinach is wilted. What will the	
spinach look like when it is wilted?	
(Possible answers: Droopy, wrinkled, shriveled,	
limp.)	
If there are leftovers of this recipe, what should be	
done with them?	
(Answer: Place them in a covered container and	
refrigerate within 2 hours. Leftovers should be	
used within 3 to 4 days.)	

# **Visuals**



Garlic growing in a field



**Garlic flowers** 



A head of garlic contains several cloves



If garlic is not used fast enough the cloves will begin to sprout

# **Garlic Nutrition Information**

Туре	Serving Size/Weight in grams	Calories	Fiber (g)	Vitamin A (International Units)	Vitamin C (mg)	Potassium (mg)	Folate (mcg)
Garlic	1 clove	4	0.1	0%	0.9	12	
Garlic, minced	1 teaspoon.	5	0.1	0%	1.6	16	
Daily	1-4 cup	Varies	Al	Daily Value	RDA	Al	RDA
Recommendations	servings of	according	(depending	based on a	(depending	(depending	(depending
RDA=Recommended	vegetables	to age and	on age)	2,000 calorie	on age)	on age)	on age)
daily allowance	per day	activity level	ranges from	per day diet	ranges from	ranges from	ranges from
AI=Adequate intake	depending		14-33.6 g		25-90 mg	3,000-4,700	150-400
	on age.					mg)	mcg)

### **Garlic Sources**

#### Recipe

- <u>dinnertonight.tamu.edu/recipe/orzo-garlic-chicken/</u>
- ndsu.edu/agriculture/extension/publications/field-fork-garlic

#### Clues

• softschools.com/facts/plants/garlic\_facts/1069/

#### Other

- anrcatalog.ucanr.edu/pdf/7231.pdf
- <u>ag.ndsu.edu/publications/food-nutrition/from-garden-to-table-garlic</u>
- <u>eatfresh.org/discover-foods/garlic</u>
- store.extension.iastate.edu/product/5490

#### Lakota translation

• Translated by Jeshua Estes

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Lakota: pšíŋkčeka

## Pick it!

A bulb is covered with dry, loose outer skin, made up of individual cloves; skin must be removed.

Select plump, dry and firm heads with a smooth white covering.

Choose large sized bulbs with roots still in place.

Do not buy garlic with green sprouts growing from it.

Store in a mesh bag at 32-40 degrees for up to 3-6 months.

Member of the onion family; strong flavor and smell for flavoring food.

Cooked garlic has a milder flavor than raw; bitter when overcooked.



# Try it!

Used whole, chopped, crushed, pressed or pureed in dishes. The more finely garlic is chopped the stronger its flavor.

Peel the outer skin off; crush by pressing with the side of a large knife blade, chop finely, crush again. Let stand at room temperature about 10 minutes.

Cook for as short a time as possible.



# **Types of Garlic**

**Softneck**: multiple plant stems braided for drying, common variety, long shelf life

**Hardneck**: stems used like green onions, mild garlic flavor

**Elephant**: related to leeks, strong smell but mild flavor



# Vid you know...

Phytochemicals, substances in plants, may protect health. Phytochemicals reduce or neutralize free radicals that damage cells.

Garlic contains phytochemicals.

#### **Garlic and Herb Butter**

#### Ingredients

- ½ cup (1 stick) softened butter
- 2 Tablespoons finely chopped parsley, basil or herb of choice
- ½ teaspoon garlic; minced
- 2-3 teaspoons lemon juice
- Salt and pepper to taste

#### Directions

- 1. Separate the garlic cloves. Crush, remove the coating.
- 2. After crushing, mince the garlic.
- 3. Mix all ingredients together.
- 4. Shape the mixture into a roll.
- 5. Wrap tightly with freezer quality plastic wrap.
- 6. Freeze up to 6 months.
- 7. Slice off amounts as needed.

#### Yields 8 servings

Nutrition Facts per Serving: Calories 100; Fat 12g; Cholesterol 30mg; Sodium 140mg; Carbohydrates 0g; Sugar 0g; Fiber 0g; Protein 0g

Source: ndsu.edu/agriculture/extension/publications/field-fork-garlic

Lakota word translated by Jeshua Estes

#### **Orzo Garlic Chicken**

#### Ingredients

- 1 cup orzo pasta; uncooked
- 2 Tablespoons olive oil
- 2 cloves garlic; minced
- ½ teaspoon crushed red pepper
- 2 (8 ounce) boneless, skinless chicken breast halves, cut into bite size pieces
- 1 Tablespoon fresh parsley; chopped (1 teaspoon if dried)
- 2 cups fresh spinach leaves
- ½ cup reduced fat, grated Parmesan cheese for topping

#### Directions

- 1. Bring a large pot of water to a boil. Add orzo pasta, cook for 8-10 minutes and drain.
- 2. Heat the oil in a skillet over medium-high heat. Cook the garlic and red pepper 1 minute until garlic is golden brown.
- 3. Stir in chicken and cook 2-5 minutes, until lightly brown and juices run clear.
- 4. Reduce heat to medium and mix in the parsley and cooked orzo.
- 5. Place spinach in the skillet. Continue to cook for 5 minutes, stirring occasionally until spinach is wilted.
- 6. Serve topped with Parmesan cheese.

#### Yields 4 servings

Nutrition Facts per Serving: Calories 370; Fat 12g; Cholesterol 85mg; Sodium 150mg; Carbohydrates 33g; Fiber 1g; Sugar 2g; Protein 33g

Source: dinnertonight.tamu.edu/recipe/orzo-garlic-chicken/

# Find more recipes and videos at extension.sdstate.edu

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