



Nutrition Facts

Serving Size: 1 cup, chopped, red tomato (180g) Calories 38 **Calories from Fat 5**

	% D a	nily Value
Total Fat 1g		1%
Saturated Fat Og		0%
Trans Fat Og		
Cholesterol Omg		0%
Sodium 16mg		1%
Total Carbohydrate 8g		3%
Dietary Fiber 2g		8%
Sugars Og		
Protein 2g		
Vitamin A 22% Vitamin C 78%	Calcium 1%	Iron 5%

Source: www.nutritiondata.com

For nutrition information in bar graph format, visit the Educators' Corner at www.harvestofthemonth.com.

TOMATOES

Health and Learning Success Go Hand-in-Hand

Research has demonstrated improved short-term memory, mood and overall academic performance when students eat a variety of nutrient-rich foods and get regular physical activity. Harvest of the Month connects with core curricula and links the classroom, cafeteria, home and community.

Exploring Tomatoes

Offering activities that allow students to experience tomatoes using their senses, engages them in the learning process and creates increased interest, awareness and support for eating more fruits and vegetables.

Tools:

- Variety of tomatoes in assorted colors*
- One tomato variety per every four students
- Dry erase board, markers

*See What's in a Name? on the next page for varieties. Harvest from your school garden.

Sensory Exploration Activity:

- Label five columns on board: smell, sound, appearance, texture, taste
- Label rows according to tomato varieties
- Guide students to observe, smell, feel and taste tomatoes
- Note students' observations on board
- Discuss similarities and differences among varieties
- Graph each student's favorite variety on board to determine overall class favorite

For more ideas, visit: www.fns.usda.gov/tn/

Cooking in Class: Salsa Fresca Ingredients:

Makes 35 tastes at 1/4 cup each

- 12 medium tomatoes, chopped
- 1 bunch fresh cilantro, chopped leaves
- 1-2 cloves garlic, chopped
- 1 large white or red onion, diced
- 2 limes, guartered
- 1/2 teaspoon salt
- Small paper cups
- Baked tortilla chips

Combine tomatoes, garlic, onions and cilantro in large bowl. Squeeze juice of one lime into bowl. Add salt and more lime juice to taste. Serve in small cups with baked tortilla chips.

Adapted from: Kids Cook Farm-Fresh Food, CDE, 2002.



Reasons to Eat Tomatoes One serving of tomatoes provides:

- An excellent source of Vitamins A and C.
- A source of potassium, Vitamin B6 and thiamin.
- Rich in lycopene, the carotenoid responsible for the red color in

tomatoes and other red fruits and vegetables.

A serving of tomatoes is about one cup chopped tomato. This is a big serving for a child.

Lycopene is a powerful antioxidant that decreases the risk of certain cancers and heart disease. Cooked tomato products, sauces and juices contain higher amounts of lycopene than raw tomatoes due to greater concentration.

Introduce smaller amounts, like onehalf cup, to help children reach their total daily needs.

What's in a Name?

Pronunciation:tə-mā'tōSpanish name:tomateFamily:SolanaceaeGenus:SolanumSpecies:S. lycopersicum



The tomato is a berry of the nightshade family, which includes potatoes, eggplants and peppers. The word "tomato" is derived from the Nahuatl (Aztec language) word, tomatl, meaning "something round and plump." Over the years, the tomato has endured many names including "love apple," "golden apple," "apple of paradise" and even "devil apple" by those who believed the tomato to be poisonous.

Varieties are commonly divided into these categories, based mostly on shape, use and size (small to large):

- Cherry: sweet tomatoes, usually eaten whole in salads
- Plum: pear-shaped, more meaty, ideal for tomato products, also called Italian or Roma
- Slicing: round or globe-shaped, used mainly for commerce and processed products
- Beefsteak: round, juicy, used mainly for sandwiches

Other varieties include heirlooms and yellow/orange tomatoes. Sweeter than most red or green, yellow/orange tomatoes contain more Vitamin C and potassium, but no lycopene.

For more information, visit:

www.plants.usda.gov

Eat Your Colors

Fruits and vegetables come in a variety of colors — red, yellow/orange, white, green and blue/purple. These may lower the risk of some cancers. Tomatoes can be red, yellow/orange or green.

Color Groups	Health Benefits	Examples
Red	Help maintain heart health, memory function and urinary tract health	Red tomatoes, red apples, pink grapefruit, beets, red peppers, red onions and radishes
Yellow/Orange	Help maintain heart health, vision health and a healthy immune system	Yellow tomatoes, yellow pears, oranges, grapefruit, sweet potatoes, yellow peppers and rutabagas
Green	Help maintain vision health and strong bones and teeth	Green tomatoes, green pears, kiwis, avocados, green peppers, cucumbers and zucchini

For more information, visit: www.harvestofthemonth.com

www.harvestofthemonth.com www.fruitsandveggiesmatter.gov

Just the Facts

- The tomato is the world's most popular fruit with more than 60 million tons produced worldwide.
- There are more than 4,000 varieties of tomatoes ranging in size, shape and color.
- Botanically, the tomato is a fruit. However, in 1893, the U.S. Supreme Court declared it as a vegetable.
- According to the USDA, Americans eat more than 22 pounds of tomatoes each year, more than half of this amount in the form of ketchup and/or tomato sauce.



 Tomatoes are grown in every state in the United States except Alaska.

Sources: www.cfaitc.org

Student Sleuths

- 1 What is the origin of the word "tomato"? What are some other names for the tomato?
- List five processed tomato products available in most grocery stores.
- **3** List three nutrients found in a tomato. Name some of the health benefits of these nutrients. Describe the impact of processing, if any, on each nutrient.
- 4 How are processing tomatoes harvested differently than fresh market tomatoes? Why do processing tomatoes have thicker skins?

Adventurous Activities

Many factors affect agricultural production. Techniques like selective breeding, genetic engineering and more efficient farming practices have allowed growers to produce crops that are more plentiful, safer for the environment, more nutritious and better tasting. Research how tomato production has evolved with advancing technology.

Source: "Catch Up on Tomato Technology," CFAITC, 2001.

For more activities, visit: www.harvestofthemonth.com



Cafeteria Connections

- Offer different salsas when serving tacos, taco salad or burritos. Include salsa in the baked potato and garden bar.
- Ask students about their favorite ways to eat tomatoes. Conduct a survey or talk to students in the classroom or during lunch hour.
- Select a team of "Student Advocates" (below) to help identify local tomato growers or distributors who can sell tomatoes to the school/district.

Adapted from: "Food Works," Team Nutrition, 1995.

Student Advocates

- Visit local grocery stores. Find out if the store buys/sells fresh tomatoes that are grown by local farmers, out-of-state or abroad?
- If the store does not purchase tomatoes from local growers, identify the rationale.
- Propose options for stores to consider purchasing tomatoes from local or regional growers.

Physical Activity Corner

To achieve optimal learning in the classroom, studies show that students need to activate their minds and bodies. Schools should be designing sequential, developmentally appropriate curriculum and implementing it to help students acquire the knowledge, skills, attitudes and confidence needed to adopt and maintain a physically active, healthy lifestyle.

There are five overall model content standards for elementary and middle school students.

Standard 1: Demonstrate motor skills and movement patterns needed to perform a variety of physical activities.

Standard 2: Demonstrate knowledge of movement concepts, principles and strategies as they apply to learning and performance of physical activities.

Standard 3: Assess and maintain a level of physical fitness to improve health and performance.

Standard 4: Demonstrate knowledge of physical fitness concepts, principles and strategies to improve health and performance.

Standard 5: Demonstrate and utilize knowledge of psychological and sociological concepts, principles and strategies as applied to learning and performance of physical activity.

Find out how your district is implementing these standards and what you can do to implement them in the classroom.

School Garden: Seed Saving Tools:

- 3-6 non-hybrid tomato plants of same variety (preferably from school garden)
- Wide-mouth, plastic container
- Cheesecloth or other fabric .
- Glass/ceramic plate or cookie sheet
- Glass jar or envelope
- Rubber band

Activity:

- Pick 3–6 tomatoes from each plant.
- Slice tomatoes in half and squeeze seedy part into plastic container.
- Add water to seeds to double total volume of liquid.
- Cover container with cheese cloth and secure with rubber band.
- Leave seeds at room temperature for 3-5 days or until film of mold forms on surface.
- Remove mold film. Again, add water to double liquid mixture and stir. The good seeds will sink to the bottom.
- Pour out excess liquid and rinse seeds several times with strainer.
- Spread clean seeds on plate and set aside, away from sunlight or heat.
- Dry seeds for several days. Once dry, place seeds in jar. Label with variety name and date.
- Store in dark location (e.g., drawer, closet). For storage longer than two years, use airtight container and store in cool, dry garage or refrigerate.

Adapted from: Tomato Time, Carol Hillhouse, 2005.

For more information, visit:

A Child's Garden of Standards, CDE, 2004.

Literature Links

- Elementary: Tomatoes from Mars by Arthur Yorinks and Tomatoes by Elaine Landau.
- Secondary: I Will Never Not Ever Eat a Tomato by Lauren Child and Carrots Love Tomatoes: Secrets of Companion Planting by Louise Riotte.





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More Tomato Fun

Find your way through the edible maze. Then color in the variety of fruits and vegetables.



Source: 5 a Day-Power Play Community Youth Organization Idea & Resource Kit, California 5 a Day-Power Play/ Campaign, 2000.

Recommended Daily Amounts of Fruits and Vegetables*

Adults, 19+	3½ - 6½ cups per day
Teens, Ages 13-18	3% - $6%$ cups per day
Children, Ages 5-12	2½ - 5 cups per day

*If you are active, try to eat the higher number of cups per day.

Visit www.mypyramid.gov/kids to learn more.



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Protein 2g	
Vitamin A 22%	Calcium 1%
Vitamin C 78%	Iron 5%
Source: www.nutritiondata.com	ata.com

Fruits and vegetables come in a rainbow of colors. Eat a colorful variety of fruits and vegetables every day — red, yellow/orange, white, green and blue/purple. Tomatoes can be red, yellow or green.

- Red fruits and vegetables help maintain a healthy heart and memory function.
- Red tomatoes, red apples, pink grapefruit, red peppers, radishes and beets.
 - Yellow/orange fruits and vegetables help maintain a healthy heart, vision and immune system. Examples are:
- Yellow tomatoes, yellow pears, cantaloupes, pumpkin, yellow peppers, rutabagas and butternut squash.
- Green fruits and vegetables help maintain healthy vision and strong bones and teeth. Examples are:
- Green tomatoes, green apples, green grapes, honeydew, Chinese cabbage, green beans and zucchini.



This material was adapted from the California Nutrition Network for Healthy Active Families. This material was funded by USDA's Food Stamp Program. The Food Stamp Program provides nutrition assistance to people with low income. It can help you buy nutritious foods for a better diet. To find out more, contact 1-800-352-8401. This institution is an equal opportunity provider and employer.