

Harvest of the Month

Growing Healthy Students



Nutrition Facts

Serving Size: ½ cup cantaloupe, cubed (80g)
Calories 27 Calories from Fat 1

| | % Daily Value |
|-----------------------|---------------|
| Total Fat 0g | 0% |
| Saturated Fat 0g | 0% |
| Trans Fat 0g | |
| Cholesterol 0mg | 0% |
| Sodium 13mg | 1% |
| Total Carbohydrate 7g | 2% |
| Dietary Fiber 1g | 3% |
| Sugars 6g | |
| Protein 1g | |

Vitamin A 54% Vitamin C 49% Calcium 1% Iron 1%

Source: www.nutritiondata.com

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

MELONS

Health and Learning Success Go Hand-in-Hand

Farmers' markets can help students learn how food travels from the farm to the plate. They also showcase diversity of fresh fruits and vegetables. Studies have shown that increasing students' knowledge of fruits and vegetables may result in increased consumption. Use **Harvest of the Month** to teach students about farmers' markets and show them how to lead a healthy, active lifestyle. It links with core curricula and connects the classroom, cafeteria, home and community.



Exploring Melons

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

Tools:

- Three or more different varieties of melons*
- Knives, cutting boards and serving plates (one for each group)
- Plastic food service gloves (one pair per student)
- Small plates or bowls
- Paper and pencils

*Refer to *Eat Your Colors* on the next page for varieties.

Sensory Exploration Activity:*

- Divide class into student groups; distribute one melon variety to each group
- Observe the external look, feel and smell of melon; record observations
- Cut open fruit and note color and smell of inside; record observations
- Scoop out seeds and cube fruit; place on serving plate at head table
- Sample each melon variety; record taste differences and similarities among melons
- Share observations with class; make a graph showing the classroom favorite

Optional: Have class write letter to school food service staff letting them know about favorite melon variety and request to feature it more often on school menus.

*Consider conducting activity with *Adventurous Activities*

For more ideas, reference:

Botany on Your Plate, University of California Botanical Garden, The Regents of the University of California, 2005.

How Much Do I Need?

A serving of melons is one-half cup cubed melon. This is about the size of one cupped handful. Remind students to eat a variety of colorful fruits and vegetables throughout the day to reach their total daily needs.

Recommended Daily Amounts of Fruits and Vegetables*

| Kids, Ages 5-12 | Teens, Ages 13-18 | Adults, 19+ |
|---------------------|----------------------|----------------------|
| 2½ - 5 cups per day | 3½ - 6½ cups per day | 3½ - 6½ cups per day |

*Ranges take into account three activity levels: sedentary, moderately active and active. For example, active individuals should aim to eat the higher number of cups per day. Visit www.mypyramid.gov to learn more.

Cooking in Class: Rainbow Melons

Ingredients:

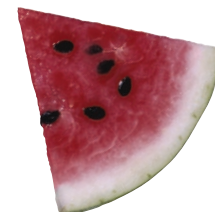
Makes 35 tastes at ⅛ cup each

- 4 cups watermelon balls or cubes
- 4 cups cantaloupe balls or cubes
- 4 cups honeydew melon balls or cubes
- Small plates and napkins

Use a melon baller to scoop melons. Serve taste of each melon variety.

For more ideas, visit:

www.harvestofthemoth.com



Reasons to Eat Melons

Cantaloupe

Serving Size: ½ cup, cubed (80g)
Calories 27 Calories from Fat 1

| | % Daily Value |
|-----------------------|---------------|
| Total Fat 0g | 0% |
| Saturated Fat 0g | 0% |
| Trans Fat 0g | |
| Cholesterol 0mg | 0% |
| Sodium 13mg | 1% |
| Total Carbohydrate 7g | 2% |
| Dietary Fiber 1g | 3% |
| Sugars 6g | |
| Protein 1g | |
| Vitamin A 54% | Calcium 1% |
| Vitamin C 49% | Iron 1% |

Casaba Melon

Serving Size: ½ cup, cubed (85g)
Calories 24 Calories from Fat 1

| | % Daily Value |
|-----------------------|---------------|
| Total Fat 0g | 0% |
| Saturated Fat 0g | 0% |
| Trans Fat 0g | |
| Cholesterol 0mg | 0% |
| Sodium 8mg | 0% |
| Total Carbohydrate 6g | 2% |
| Dietary Fiber 1g | 3% |
| Sugars 5g | |
| Protein 1g | |
| Vitamin A 0% | Calcium 1% |
| Vitamin C 31% | Iron 2% |

Honeydew Melon

Serving Size: ½ cup, cubed (88g)
Calories 32 Calories from Fat 1

| | % Daily Value |
|-----------------------|---------------|
| Total Fat 0g | 0% |
| Saturated Fat 0g | 0% |
| Trans Fat 0g | |
| Cholesterol 0mg | 0% |
| Sodium 16mg | 1% |
| Total Carbohydrate 8g | 3% |
| Dietary Fiber 1g | 3% |
| Sugars 7g | |
| Protein 0g | |
| Vitamin A 1% | Calcium 1% |
| Vitamin C 27% | Iron 1% |

Watermelon

Serving Size: ½ cup, cubed (78g)
Calories 23 Calories from Fat 1

| | % Daily Value |
|-----------------------|---------------|
| Total Fat 0g | 0% |
| Saturated Fat 0g | 0% |
| Trans Fat 0g | |
| Cholesterol 0mg | 0% |
| Sodium 1mg | 0% |
| Total Carbohydrate 6g | 2% |
| Dietary Fiber 0g | 1% |
| Sugars 5g | |
| Protein 0g | |
| Vitamin A 9% | Calcium 1% |
| Vitamin C 10% | Iron 1% |

Source: www.nutritiondata.com

One serving of melons may provide:

- An excellent source of Vitamin C (e.g., cantaloupe, casaba, honeydew).
- An excellent source of Vitamin A (e.g., cantaloupe).
- A source of potassium (e.g., cantaloupe, casaba, honeydew, watermelon).
- A source of Vitamin B6, folate and niacin (e.g., cantaloupe, casaba, honeydew).
- A source of lycopene (e.g., watermelon).

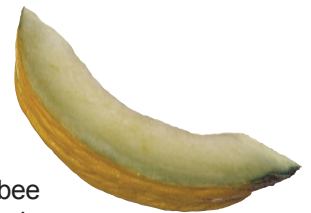
Potassium is an essential mineral that functions primarily in the intracellular fluid by regulating electrolyte and water balance and cell metabolism. It also plays a role in the synthesis of muscle protein from amino acids in the blood.

Eat Your Colors

Fruits and vegetables come in a rainbow of colors. Eat a variety of colorful fruits and vegetables every day — red, yellow/orange, white, green and blue/purple. These may lower the risk of some cancers. Melons are found in the red, yellow/orange and green color groups.

| Color Group | Health Benefits | Melon Examples |
|---------------|--|--|
| Red | Help maintain heart health, memory function and urinary tract health | Watermelon |
| Yellow/Orange | Help maintain heart health, vision health and healthy immune system | Cantaloupe, casaba, piel de sapo, sugar melon, yellow watermelon |
| Green | Help maintain vision health and strong bones and teeth | Honeydew, Crenshaw, horned melon, galia |

For more information, visit: www.fruitsandveggiesmatter.gov



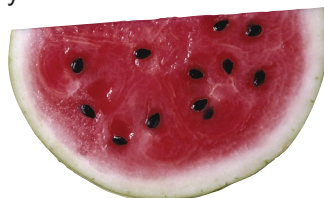
Just the Facts

- On average, it takes about 10 to 15 bee visits for proper pollination to grow melons.
- By weight, the watermelon is the most common melon consumed in America, followed by the cantaloupe and honeydew melon.
- There are many varieties of the “western shipping type” cantaloupe, but since consumers cannot differentiate between them, they are marketed under the general name as “cantaloupe.”
- There are four main varieties of watermelon: allsweet, ice-box, seedless and yellow flesh.

Student Sleuths

- 1 Study the Nutrition Facts labels for cantaloupe, casaba and honeydew melons. Make a list of nutrients found in each variety and write a brief sentence about the health benefits each provides to the body. Compare and contrast the nutrients for each melon. Refer to the Nutrition Facts label for watermelon. How does it compare to other melon varieties?
- 2 Melons are members of the gourd family. Make a list of other produce items that belong to this family. Is the melon a fruit or vegetable? Write a persuasive argument for your statement.
- 3 Cantaloupes were named after the Roman town of Cantalupo in Italy where they were grown in abundance. Locate this on a map and research how the ancient Romans used cantaloupes. Study how the melon has been used in other parts of the world. Sample different melon varieties with your family.

For information, visit: www.nutritiondata.com



School Garden: Bug Hunt

Tools:

- Light-colored cloth sheet
- Magnified bug boxes or hand lenses

Activity:

- Take sheet and place under plant bush or shrub.
- Shake plant gently and carefully remove sheet.
- Use magnified bug boxes to observe bugs found on sheet; record observations.
 - **Grades K–6:** Draw and label the basic insect parts (e.g., head, thorax, abdomen).
 - **Grades 7–12:** Identify and classify insects; conduct population surveys; and/or study predator-prey relations in insect world.
- Shake sheet over plant to return bugs to their home.
- Repeat with different plant. Compare types of bugs found.

Adapted from: www.lifelab.org

For information, visit:

www.ipm.ucdavis.edu
www.kidsgardening.com

Cafeteria Connections

Celebrate the many varieties of melons by hosting a “Melon Contest.”

- Find as many different varieties as possible at local grocery store or farmers’ market.
- Set-up display of melon varieties in cafeteria.
- Decide on contest (e.g., name the varieties; identify the flesh color; estimate the number of seeds in each melon; estimate the circumference of each melon; estimate weight).
- Feature melon varieties on menu throughout month to promote contest.

Adapted from: Team Nutrition “Food Works,” 1995.

Literature Links

- **Elementary:** *Anansi and the Talking Melon* by Eric Kimmel, *Melvin’s Melons* by Sherry Vaughn, *A Seed Grows* by Pamela Hickman and Heather Collins and *Watermelon Day* by Kathi Appelt.
- **Secondary:** *Encyclopedia of Foods* by Inc. Experts from the Dole Food Company, The Mayo Clinic, UCLA Center for Human Nutrition [Editor], *Genetically Modified Food* by Nigel Hawkes and *Melons for the Passionate Grower* by Amy Goldman.



A Slice of Melon History

- Melons were first cultivated in Persia and northern Africa nearly 4,000 years ago, and later by ancient Greeks and Romans.
- Introduced to western and northern Europe during the Middle Ages, melons were harvested by the Spaniards and later the French and British.
- Christopher Columbus brought over the first melon seeds to North America on his second expedition, while watermelons arrived with African slaves.
- Melons and watermelons were grown almost exclusively in home gardens until the first half of the 20th century, when more disease- and wilt-resistant cultivars were developed by the USDA.

Adventurous Activities

Hint: Coordinate with *Exploring Melons* activity on the first page.

Melon Math:

- Estimate the weight of each melon variety; measure weight and record.
- Estimate the circumference, surface area and volume of each variety; measure and record.
- Compare weight and size measurements for each variety. Determine if there is a correlation between weight and size. Why or why not?
- Determine the edible portion of each melon variety and weigh, if possible.
- Compare the ratio of fruit to rind for each melon variety.
- Estimate and record number of seeds in each variety. Determine which variety has the most number of seeds.

For more ideas, visit:

www.harvestofthemonth.com



Physical Activity Corner

Physical education (PE) experiences provide students with a unique opportunity for problem solving, self-expression, socialization and conflict resolution. Research has shown that students who engage in daily PE have superior motor fitness, academic performance and a better attitude toward schools than their peers who do not. If your students cannot engage in PE every school day, remind them to be physically active for at least one hour every day before, during or after school. Work with your school’s PE teachers to find an activity that you can implement on days when your students do not have PE.

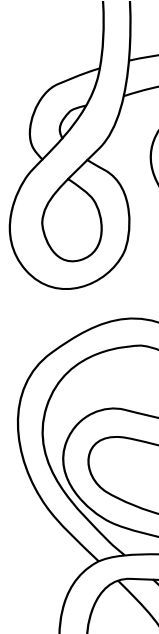



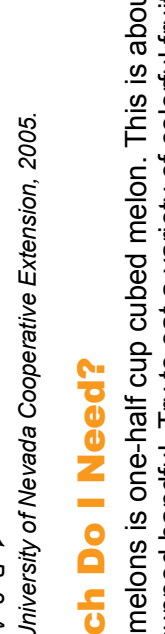
For activity ideas, visit:

www.afterschoolpa.com
www.pecentral.org

ALL ABOUT MELONS

Eat Your Vitamins and Minerals

Vitamins and minerals help you grow and stay healthy. Guide each vitamin or mineral (on the left) through the mazes to find out which jobs they do (on the right). (answers below)

| | | |
|---------------------|---|--|
| <p>1. Iron</p> |  | <p>A. I help to form bones, fight infections and heal wounds. I am _____.</p> |
| <p>2. Vitamin C</p> |  | <p>B. I carry oxygen in the blood to all your body's parts. I am _____.</p> |
| <p>3. Vitamin A</p> |  | <p>C. I help you to see better, especially at night. I am _____.</p> |
| <p>4. Potassium</p> |  | <p>D. I build strong bones and teeth and help your muscles work. I am _____.</p> |
| <p>5. Calcium</p> |  | <p>E. I help your heart beat and muscles move. I am _____.</p> |

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How Much Do I Need?

A serving of melons is one-half cup cubed melon. This is about the size of one cupped handful. Try to eat a variety of colorful fruits and vegetables throughout the day to reach your total daily needs.



Eat the Rainbow!

Eat a variety of colorful fruits and vegetables every day — red, yellow/orange, white, green and blue/purple. Melon can be in the yellow/orange, green and red color groups.

- Yellow/orange fruits and vegetables help maintain a healthy heart, vision and immune system. Examples are:
 - Cantaloupe, casaba melon, sugar melon, piel de sapo melon, mango, carrots, corn, and yellow peppers.
- Red fruits and vegetables help maintain a healthy heart and memory function. Examples are:
 - Watermelon, strawberries, raspberries, cherries, rhubarb, tomatoes, radishes and beets.
- Green fruits and vegetables help maintain healthy vision and strong bones and teeth. Examples are:
 - Honeydew melon, Crenshaw melon, Chinese bitter melon, horned melon, green grapes, spinach, broccoli and zucchini.

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Calories from Fat 1

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*If you are active, try to eat the higher number of cups for your age.

To learn more, visit www.mypyramid.gov/kids.

Arizona Nutrition Network

