



#3619

ICE CREAM AND POPSICLES

Grade Levels: PS-4

10 minutes

FILMS FOR THE HUMANITIES 1994

DESCRIPTION

A favorite dessert of the ancient Chinese was "water ices," the basis for our ice cream. Elementary students make their own ice cream and visit a plant that makes Popsicles, ice cream cones, and ice cream sandwiches.

ACADEMIC STANDARDS

Subject Area: Technology

- ◆ Standard: Understands the nature and operation of systems
 - Benchmark: Knows that most things are made of parts and they may not work if some parts are missing
 - Benchmark: Knows that when parts are put together, they can do things that they couldn't do by themselves
 - Benchmark: Understands how some elements or components of simple systems work together (e.g., parts of a bicycle)

Subject Area: Health

- ◆ Standard: Knows how to maintain and promote personal health
 - Benchmark: Understands the influence of rest, food choices, exercise, sleep, and recreation on a person's well-being

Subject Area: Economics

- ◆ Standard: Understands the concept of prices and the interaction of supply and demand in a market economy
 - Benchmark: Knows that money is a good that can be used to buy all other goods and services
 - Benchmark: Understands that when consumers make purchases, goods and services are transferred from businesses to households in exchange for money payments, which are used in turn by businesses to pay for productive resources and to pay taxes

VOCABULARY

- | | |
|----------------|---------------|
| 1. groceries | 7. sandwich |
| 2. vegetables | 8. cone |
| 3. juice | 9. (to) stir |
| 4. sauce | 10. (to) mix |
| 5. crushed ice | 11. (to) chop |
| 6. cream | 12. (to) wrap |



BEFORE SHOWING

1. Ask students to describe and give examples of frozen food. How does food stay frozen? Brainstorm names of frozen desserts. Make a list on the blackboard. Ask students to speculate about some of the ingredients in these desserts.
2. Ask students to name foods that are sold in scoops (e.g., a scoop of ice cream, a scoop of nuts).

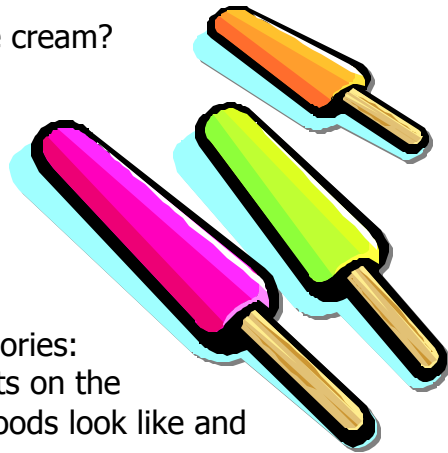
AFTER SHOWING

Discussion Items and Questions

1. After students have watched the video, ask them the following questions:
 - a. What are the names of some Chinese vegetables?
 - b. What sweet did the Chinese invent?
 - c. How did a French chef turn water ices into ice cream?
 - d. What ingredients are used in ice cream?
 - e. How do you make an ice cream sandwich?
 - f. What are some of the toppings used on ice cream?
 - g. How are Popsicles made?
 - h. What do you prefer—ice cream or Popsicles? Why?
2. Ask students to name foods in the following categories: vegetables, fruits, and spices/ flavorings. Make lists on the blackboard. Have students describe what these foods look like and how they can be used in food preparation.
3. Write the following quiz items on the board. Ask students to choose the correct answer. Both items relate to ice-cream manufacturing.

To pasteurize means:

 - a. To add flavor
 - b. To freeze
 - c. To break up fat



Applications and Activities

1. Flavor Survey

Brainstorm a list of ice cream and Popsicle flavors with the class. Write all flavors on the blackboard. Have students copy the words on lined paper. Instruct each student to do a survey of everyone's favorite flavor. Note each student surveyed can pick only one flavor. Have students place a mark on their list per response and add up the total numbers for each flavor. Have students report their findings to the class.



2. Squeeze Bottle Dessert

Bring in six to ten empty plastic squeeze bottles, flour, salt, small mixing bowls, wooden spoons, and small funnels. Divide students into groups. Have each group mix equal parts of flour and salt in each bowl. Give each group one color of liquid paint. Have them add paint to the bowl and mix all ingredients with a spoon to make a paste. They should pour the mixture into a squeeze bottle. Distribute construction paper to each group. Sharing the bottles of paste, create a design for a fancy dessert. Let dry. Display the designs on a table. Ask each group to describe their dessert and to invent a catchy name for it.

3. Popsicle World

You will need a box of Popsicle sticks, paint, brushes, markers, crepe paper, construction paper, fabric scraps, cotton wool, glue, large paper clips, and one spool of thick string. Instruct students that they are to create Popsicle people from different parts of the world. Have them paint their peg, draw on features, and glue on pieces of paper, wool, and fabric. Stretch the spool of string across one wall of the classroom, in clothesline fashion. Have students hang their Popsicle people on the string with a paper clip.

Have each student talk about:

- Who their person is.
- Where they live.
- What special talents they have.
- What their favorite foods are.

RELATED RESOURCES

Captioned Media Program

- Chocolate #3589
- Oranges: From Farm to Table #3385
- P is for Potato #2318
- Peanuts #3640
- Soup #3662



World Wide Web



The following Web sites complement the contents of this guide; they were selected by professionals who have experience in teaching deaf and hard of hearing students. Every effort was made to select accurate, educationally relevant, and "kid-safe" sites. However, teachers should preview them before use. The U.S. Department of Education, the National Association of the Deaf, and the Captioned Media Program do not endorse the sites and are not responsible for their content.

- **THE HB ICE-CREAM**

<http://www.hbicecream.ie/history/made.html>

The Hughes Brothers Dairy offers a written history of ice cream, e-postcards for a hot summer day, fun games and more.

- **BEN & JERRY'S SITE**

<http://www.benjerry.com/>

Corporate information, flavor updates, on-site factory tour descriptions (in Vermont) with dates and times, along with lots answers to FAQ's that are perfect for those doing research. The "Fun Stuff" page includes print-and-play games, crafts, e-cards, and more.



- **ESKIMO PIE SITE**

<http://www.eskimopie.com/>

If you've ever wondered how ice cream was first created, who invented it, and other historical developments surrounding the frozen product, visit the "History" link on the Eskimo Pie homepage. This clickable time line runs from 1700 to the present, and is filled with interesting and little-known ice-cream trivia. Play some fun Shockwave games while you're there!

- **THE POPSICLE ZONE**

<http://www.popsicle.com/>

The official Popsicle site from Good Humor-Breyers Ice Cream. Gamezone, stickers, and screensavers for downloading. Print out pictures and directions for Popsicle arts and crafts projects at <http://www.popsicle.com/games/construction/index.html>.