

Ice Cream Summer

RIF EXTENSION ACTIVITIES FOR EDUCATORS

STEAM-THEMED: SCIENCE, TECHNOLOGY, ENGINEERING, ART, MATH



SCIENCE

ICE CREAM INVESTIGATIONS

Materials: ice cream, ice cream scoop, bowls (2 metal, 2 plastic, 2 glass)

Place a metal, plastic, and glass bowl in the freezer for at least 1 hour before the experiment. Explain that your class is going to investigate ice cream melting and if different materials affect how quickly it melts. Have students predict which container will produce the quickest melt: one of the frozen bowls, or one of the room temperature bowls. Place a scoop of ice cream in each of the 6 containers and place outside on a sidewalk. Have students observe and record their findings. In which container did the ice cream melt first? Last? What factors do students think contributed to the results? Based on the results, how should we eat our ice cream?



TECHNOLOGY

INTERNATIONAL ICE CREAM

Check out these links for a look at how ice cream is made around the world:

- ◆ www.refinery29.com/ice-cream-flavors-around-the-world
- ◆ www.youtube.com/watch?v=HJOzGX2u0xQ (India)
- ◆ www.youtube.com/watch?v=YSQxQN6WTal (Thailand)

Discuss which type of ice cream preparation looks like the most fun to eat. Do any students enjoy these or any similar treats?



ENGINEERING

DIVINE DESIGNS

Have students watch this clip on how the engineering design process relates to the making of ice cream: www.eie.org/engineering-everywhere/curriculum-units/food-thought. Students should discuss the how each shop used the engineering design process to make their ice cream product.

ART

MONET SUNDAE

Materials: white paper; red, yellow, blue, and white paint; paint brushes; paper plate

Draw a bowl and fill it with scoops of ice cream. Decorate the bowl with fun designs and create a background. Have students paint what they see. Let students experiment with mixing primary colors to create new colors. What types of ice cream flavors can you show by mixing paint colors? Remember, Monet was an *Impressionist*, so his paintings were bright, bold, and colorful. Show students a few Monet paintings to give them an idea of how he used color.



MATH

SUPER SUNDAE SUMS

Have students complete the four word problems from the text. Students should then create at least four additional word problems that involve ice cream and solve them. Be sure they show their work for all problems. Encourage students to show at least two different ways to solve each problem.



Reading Is Fundamental