



# Rio Grande Educational Collaborative Before and After School Program Lesson Plan

**TITLE OF LESSON:** Ice Cream in A Bag

**DATE:**

**SITE NAME:**

**CLASS SIZE:**

**NAME(S) OF INSTRUCTOR:**

**DURATION OF LESSON:**

**CREDIT (website used/name of author):** Kevin Saavedra

**COMMON CORE STANDARDS:** CCSS.MATH.CONTENT.K.MD.A.2, CCSS.MATH.CONTENT.3.MD.A.2, CCSS.MATH.CONTENT.5.MD.C.4

## LEARNING OBJECTIVES:

**Students will understand the following:**

- Practice measurements in a practical cooking setting
- Develop an understanding of the chemical reaction between salt and ice

## ACTIVITY:

### Instructional Sequence:

(Step by step instructions, should another instructor pick up and teach the lesson successfully)

For each cooking lesson, students and teachers will:

- Spray and wipe the table with food-safe sanitizing spray.
- Wash their hands for 20 seconds with soap and warm water.
- Be responsible for cleaning up after themselves.

Work through the process alongside students:

1. Add 1/4 cup sugar, 1/2 cup milk, 1/2 cup cream (half and half), and 1/4 teaspoon vanilla to the quart Ziploc bag. Zip this bag up so nothing leaks.
2. Put the 2 cups of ice into the gallon Ziploc bag.
3. Add 1/2 to 3/4 cup salt to the gallon bag of ice.
4. Place the sealed quart bag inside the gallon bag of ice and salt. Seal the gallon bag securely.
5. Move the gallon bag from side to side. Hold it at the seal so that the cold ice doesn't freeze your hands instead of your ice cream. You can also use gloves or a towel to protect your hands.
6. Continue to rock the bag for 10-15 minutes or until the contents of the quart bag have solidified.
7. Add toppings as desired.

## MATERIALS:

**The following materials or equipment needed for this lesson:**

(Include special equipment request)

- Sugar
- Milk
- Half and half
- Vanilla extract
- Ziploc bags (quart and gallon)
- Ice
- Ice cream salt
- Ice cream toppings (syrup, fruits, candies, etc.)

**SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**SITE SUPERVISOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**INSTRUCTOR'S REFLECTION:**

**Reflection on the lesson given:**

1. How many students participated in the lesson given? \_\_\_\_\_
2. Name(s) of instructors participated. \_\_\_\_\_
3. How long did your lesson take? (Amount of time) \_\_\_\_\_
4. How did the students feel about the lesson? \_\_\_\_\_
5. Did the students like the lesson? \_\_\_\_\_
6. What part of the lesson did the students like? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
7. What part of the lesson did the students not like? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
8. Were the students interested in the topic of the lesson? \_\_\_\_\_
9. Was the content of the lesson difficult for the students? \_\_\_\_\_
10. What could you have changed to make the lesson interesting? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
11. Did you have any trouble getting your lesson together? (Idea & Materials) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
12. How do you rate your lesson? (1-10) Why? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**SITE SUPERVISOR'S REFLECTION:**

**Reflection on the instructor's lesson:**

1. How many students participated in lesson? \_\_\_\_\_
2. How many instructors participated in lesson? \_\_\_\_\_
3. Did the students enjoy the lesson? \_\_\_\_\_
4. What part did the students enjoy? \_\_\_\_\_  
\_\_\_\_\_
5. What part did the students NOT enjoy? \_\_\_\_\_  
\_\_\_\_\_
6. What could have been changed to make the lesson interesting? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
7. Was the content of this lesson difficult for students to understand? Why? \_\_\_\_\_  
\_\_\_\_\_
8. What part of STEAM or literacy was used? (Science, Technology, Engineering, Art, Mathematics or Literacy)  
\_\_\_\_\_  
\_\_\_\_\_
9. Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_