How to Make Ice Cream in a Bag

Grade 3

Name _____ Date _____

Remember: Read the passage **twice**: once to enjoy it, and once to look for details. Then answer the questions. Look back at the text to **prove** your answers.

Tip: Underline the sentence in the passage that helps you answer each question.

How to Make Ice Cream in a Bag



Did you know you can make ice cream with just a few ingredients and two plastic bags? It takes about ten minutes, and it is a tasty science experiment.

You will need: 1/2 cup of milk or cream, 1 tablespoon of sugar, 1/4 teaspoon of vanilla, 1 small zip-top bag, 1 large zip-top bag, 3 cups of ice, 1/3 cup of coarse salt, and mittens or a towel.

Step 1: Pour the milk, sugar and vanilla into the small bag. Squeeze out the air and seal it tightly.

Step 2: Fill the large bag halfway with ice. Sprinkle the salt over the ice.

Step 3: Put the small bag inside the large bag and seal the large bag.

Step 4: Put on your mittens. The bag will get very cold! Shake the bag for about five to eight minutes, until the milk turns thick and creamy.

Step 5: Take out the small bag, wipe off the salty water, and enjoy your ice cream with a spoon.

Why does it work? Salt makes ice melt at a colder temperature. As the salty ice melts, it pulls heat away from the milk, and the milk gets cold enough to freeze.

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1. Check your understanding

Circle the best answer.

1. What goes into the small bag?

(a) Ice and salt
(b) Milk, sugar and vanilla
(c) Only ice

2. Why should you wear mittens?

(a) The bag gets very cold.
(b) To keep the bag clean.
(c) To make it taste better.

3. How long should you shake the bag?

(a) About five to eight minutes
(b) About one hour
(c) Ten seconds

4. What does the salt do?

(a) Adds flavour to the ice cream
(b) Makes the ice melt at a colder temperature
(c) Keeps the bag shut

2. Write your answer

Answer in complete sentences. Use details from the text.

1. **What do you do right after you seal the small bag?**

2. **Why is it important to follow the steps in order?**

3. **Explain in your own words why the milk freezes.**

Answer Key

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4. What does the salt do?

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- **b. Makes the ice melt at a colder temperature**
- c. Keeps the bag shut

2. Write your answer

Sample answers. Students' wording will vary.

1. **What do you do right after you seal the small bag?**
   Fill the large bag halfway with ice and sprinkle salt over the ice.
2. **Why is it important to follow the steps in order?**
   If you skip or mix up steps, the milk might spill or not freeze, and the ice cream would not work.
3. **Explain in your own words why the milk freezes.**
   The salt makes the ice melt colder, and the melting ice pulls heat away from the milk until it freezes.