**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Frozen Treat in a Bag - Directions**

Materials/Treat

* ½ cup milk or half & half (ice cream).
* Optional: use fruit juice to make a sorbet)
* ¼ t vanilla
* 1 T sugar
* 1 resealable sandwich bag
* 1 resealable gallon bag
* 1 tray ice cubes
* 6 T salt (rock or table)
* Towel, gloves, or potholders
* 1 spoon

Treat Preparation

1. Mix treat contents in the sandwich-sized resealable bag; then, seal the bag.
2. Add the treat bag, the ice, and the salt to the gallon-sized bag; then, seal the bag.
3. Protect your hands from the cold bag using the towel, gloves, or potholders.
4. Shake the bag back and forth until the liquid thickens; this should take 5 to 10 minutes.
5. Remove the sandwich bag from the gallon bag. Wipe the wet salt mixture from the outside of the sandwich bag.
6. Use the spoon to eat the treat right from the sandwich bag.

**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Frozen Treat in a Bag - Participant Assessment Sheet**

Discussion: Complete while shaking the bag and eating the treat.

1. What contributes to the smooth texture that you feel in your mouth when eating the ice cream? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. At what temperature does water freeze?

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1. Why do we add salt to the ice? Why not just use ice?

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1. What is freezing point depression?

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1. Why else might we want to lower the freezing point of water?

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1. What other questions might we ask? What other experiments could we do?

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