

SUPER COOL EDIBLE ICE WORK SHEET

Name: _____

Date: _____

INGREDIENTS

1/2 cup milk
1/2 tsp vanilla
1 tbs sugar
4 cups crushed ice
4 tbs salt



INSTRUCTIONS

1. Mix milk, vanilla, and sugar in a quart-sized bag and seal tightly, allowing no air in the bag.
2. Place the bag inside another quart-sized bag, leaving as little air in the bag as possible.
3. Place the double-bagged mixture into the gallon-sized bag.
4. Fill the remaining space in a gallon-sized bag with ice.
5. Add salt to the gallon-sized bag, remove the remaining air, and seal the bag.
6. Using gloves or a towel to hold the bag, shake and massage the bag, surrounding the ice cream mixture with ice.
7. Continue for 5-10 minutes, or until the mixture is frozen.

DISCUSSION QUESTIONS

Why did the mixture turn from liquid to ice cream?

Why did we add salt to the ice?

Would we have had the same result if we hadn't added salt to the ice?

Do you think salt affects the role that oceans play in climate?

What other things in your life are stair-step or threshold reactions?

Can you think of anything related to climate that has a threshold reaction?