

Homemade Rock Candy

Materials (for a group of 4)

3 c sugar (no more!!!)

1 1/4 c water

1 metal pan

1 wooden spoon

4 Plastic Cups

4 Sticks

4 Clothes Pins

2 Hot pads

Flavor/food coloring added by teacher

1. Get 3 cups of sugar from your teacher. Place in metal pan. (use exactly 3 level cups... no more!!!)
2. Add 1 $\frac{1}{4}$ cups water to the pan. Stir.
3. Heat on the hot plate, stirring often...until all of the sugar is dissolved and the mixture starts to boil.
4. Remove from hot plate.
5. Raise your hand to ask your teacher to add flavor and color.
6. Dip each stick in the sugar solution and then into sugar to give it seed crystals for the crystals to cling to. Lay it on a paper towel to dry off for a few minutes.

***** While the mixture is cooling and the sugar coated stick is drying, complete the Salt Crystals lab on the other side of this paper.*****

7. Pour solution equally between the four cups. Then suspend your coated stick in the cup with a clothespin so the stick isn't touching the bottom or the sides of the cup.

In 2-3 days break the top crust and pull out the stick.

Questions:

1. What process is happening to allow the sugar crystals to form?
2. What shape of crystals are being formed by the sugar?
3. Is sugar a mineral?
4. Draw a single sugar crystal.



Name: _____

SALT Crystals

Day #1: Place small damp sponge in a shallow bowl. (write name on bowl)
Pour over sponge 6 plastic spoons full of each of the following chemicals...

- Mrs. Stewart's Bluing
- Water
- Salt
- Ammonia

Day #2: Add 2 more T salt (this will be done by your teacher)

Questions:

1. What shape of salt crystals are being formed?
2. Why are the crystals so fragile?
3. Is salt a mineral?
4. Draw a single salt crystal.