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The shape of the crystal that water molecules form is a hexagon, and this is why snowflakes are six sided.



When water freezes, the molecules line up in a crystal structure so that their positive and negative sides are perfectly matched. To make this lattice structure, they have to spread out. This is why ice expands when frozen.

EXPANDS
when frozen.

1. Frost Wedging

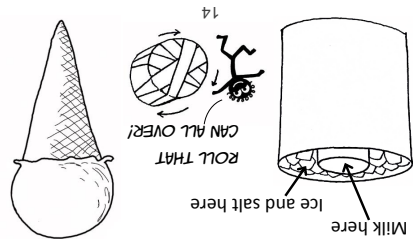
Materials:

- Water
- Oil
- 2 identical containers
- Plaster of Paris or gypsum
- Balloons
- Freezer

Method:

- Fill one balloon with water and one balloon with oil (optional).
- Prepare containers for plaster, for example, by cutting a small cardboard container in half.
- Place balloons in containers.
- Mix plaster & water according to directions and pour it in the containers around the balloons.
- Let dry and then freeze. Remove containers and observe.

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- Seal a lid onto the large can and roll the can across the floor for 10 minutes.
- Carefully remove the small can and scrape down the ice cream forming on the sides. Drain the water from the large can. Refresh the ice and salt.
- Seal the cans again and roll them another 10 minutes.
- Scrape down sides and set the small can in the freezer for 20 minutes. (Optional)

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