



*Scientists don't agree on what would happen









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is why snowflakes are six sided.

molecules form is a hexagon, and this

The shape of the crystal that water

is why ice expands when trozen.

structure, they have to spread out. This

perfectly matched. To make this lattice

positive and negative sides are

up in a crystal structure so that their

When water treezes, the molecules line

"UƏZOJĮ UƏYM

SONVAXE



Turn down the temperature, and you turn down the speed. MOLECULES BEHAVE THE SAME WAY.



reptiles: They move fast when they're warm, and are sluggish and slow when cold. To understand how liquids turn into solids, it helps to remember something about

1. Frost Wedging

Matarials	
waterials.	

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

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

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13 YOU CAN USE PLASTIC BAGS INSTEAD. RECIPE, AND IF YOU DON'T HAVE CANS

2. Magic Slushy

- Materials:
 - · Bottles of carbonated soda

Ice floats in liquid water, but the

OPPOSITE happens for most other

substances!

To see the "regular" way solids

behave, place a frozen cube of oil

into a cup of liquid oil. It will sink

straight to the bottom.

Frozen oil cube

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Liquid oil

ice cube

water

- Freezer
- · Cup and spoon

Method:

- a) Place the bottle of soda in the freezer for 3 hours. (YOU MAY WANT TO PLACE SEVERAL IN THE FREEZER AND TAKE THEM OUT AT 30 MINUTE INTERVALS ONCE THEY'VE BEEN IN THE FREEZER FOR AN HOUR. THE CORRECT TIME TO REACH THE "SUPER COOLED" STATE WILL VARY BY FREEZER.)
- b) Remove soda and be careful not to bump or jar it too hard. Open lid *slowly* and pour soda into an ice-cold cup. If it is super-cooled, it will freeze into a slushy as it is poured.



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