

Melt the Ice!

Your task is to work out the quickest way to melt an ice cube.



heat



cold



water



salt



sugar



other

Draw what you will need.

I predict that _____ will melt the ice the quickest.

I predict that _____ will melt the ice the slowest.

Draw what happened.

What melted the ice the quickest? _____

What melted the ice the slowest? _____

Method

1. Children are to put on their gloves.
2. Put salt in one bowl, water in another bowl and the ice cubes in the third bowl.
3. Lay out a piece of string next to the bowls.
4. Put some ice cubes in the bowl with the water.
5. Challenge the children to see if they can lift a piece of ice from that bowl using only the string.
6. After several attempts, pass them the bowl of salt ('magic powder').
7. Ask them what they think will happen if they sprinkle the salt onto the ice.
8. Place the string over the ice and sprinkle the salt over the string.
9. Count together to 60, then carefully lift the string up by each end.

You will need:

Gloves

Ice cubes

Water

String

Salt

3 bowls



Science Experiment

Sticky Ice

Can you make the ice stick to the string?

Put the string on top of the ice and lift it up. Does the ice cube stick to the string?

What happens if you sprinkle the string with some salt?

You will need to count to 60 to let the salt work its magic.

Has the ice cube stuck to the string now?

What do you think is happening?

Can You Make Ice Grow?

Science Experiment

You will need:

Bottles of water - plain or coloured water

A container of ice cubes



The Activity

1. Put some bottles of water, laying flat, in a freezer for nearly 3 hours.
2. If you would like to use coloured water, add food colouring before placing in the freezer but ensure that the lids are secured tightly afterwards.
3. Remove the bottles from the freezer - before the water turns to ice, but has been in there long enough to make it icy cold.
4. Care is needed when removing the bottles from the freezer to ensure no ice is created. Do not shake or bump the bottle.
5. In a small container, place some ice cubes and gently start to pour the icy water over the top of the ice cubes. Watch what happens!
6. Continue to keep the stream of water going and move it around a bit