

Science

Changing states

The state of an object can be changed by either cooling or heating it.

Heating a solid to a liquid is called **melting**.

Cooling a liquid to a solid is called **freezing**.

Heating a liquid to a gas is called **evaporation**.

Cooling a gas to a liquid is called **condensation**.

Watch Video:

<https://www.bbc.co.uk/bitesize/articles/z6j2mfr>

Optional tasks:

Bakeit: Why not use some melted chocolate to make your own chocolate crispy cakes? Mix some cornflakes or rice crispies into the melted chocolate, spoon the mixture into cake cases and leave to freeze solid. Enjoy!

Makeit: Can you make some frozen yoghurt or ice cream? Add your favourite fruits and put it in the freezer to change into a solid.

Activity 2 (adult supervision required)

Investigation

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1. Pour some water into an ice cube tray and leave it in the freezer for a couple of hours. Look at how the water has changed from a liquid (water) to a solid (ice) when it has been cooled down.

What they think might happen if you leave the ice cubes out in the air. Come back after a while and test your predictions.

Finally, **ONLY WITH ADULT SUPERVISION** put some water in a pan and bring it to the boil. Demonstrate that heating up a liquid will change it into a gas (steam).