

Disclaimer

This resource is provided for informational and educational purposes only. As this resource refers to food items/ingredients, and water activities, you must ensure that an adequate risk assessment is carried out prior to using this resource. It is your responsibility to ensure you are aware of the allergies and health conditions of anyone making or consuming these products. Twinkl is not responsible for the health and safety of your group or environment. It is your responsibility to ensure the resource and the information/activity it contains are safe and appropriate to use in your situation.

You will need:

Escape the Ice

water (for freezing)

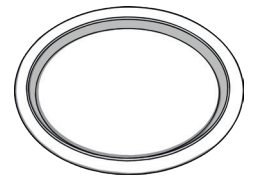
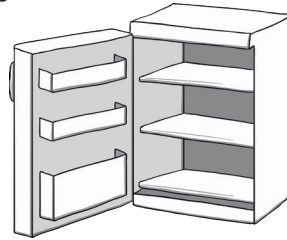


small container,
such as a
yoghurt pot



small toy
figure

freezer



tray or plate

items to try to melt the ice with, e.g. materials,
salt, baking powder, sugar, warm water

Method

1. Put your toy into the pot.
2. Fill the pot with water, leaving a little bit of space at the top. Make sure the water is completely covering the toy.
3. Place the pot into the freezer until completely frozen.
4. Take the pot out of the freezer. Remove the ice block and place it on a plate.
5. Now you need to decide how you will get the toy out of the ice! Think about what you could use on the ice or where you could put it, to melt the ice and free the toy.



The Science

When water is cooled down to 0 degrees Celsius, it changes to ice. This is known as the freezing point. The process of liquid water changing to solid ice is called freezing.

When the temperature is higher than 0 degrees celsius, the ice will turn back into water. This process is called melting.

Some substances like salt can lower the freezing point, making the ice melt.

What do you think will happen to the water in the freezer?
Will freezing also change the toy figure or container?
What is the difference between ice and water?
How will you get the toy out of the ice?
How could you make the ice melt faster?
How could you keep it frozen for longer?

Escape the Ice

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