

Wonderful Water



LO: to explore how water changes state.

Success Criteria

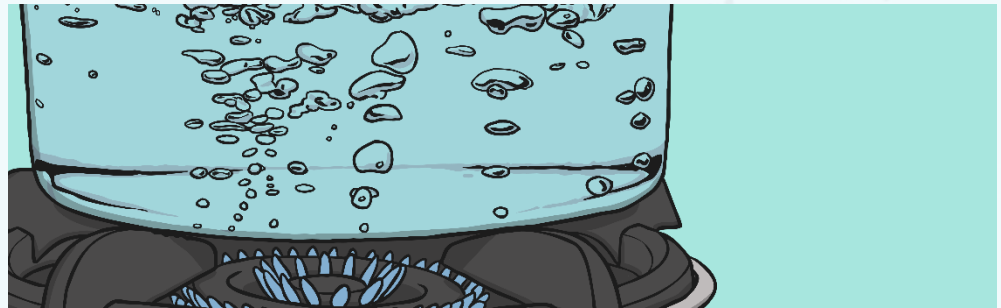
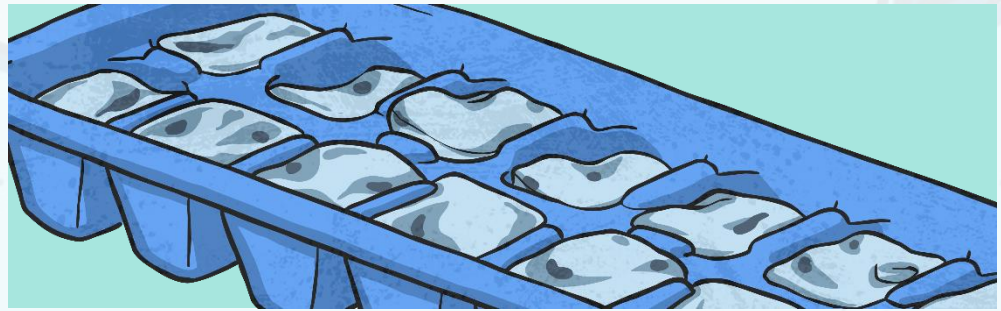
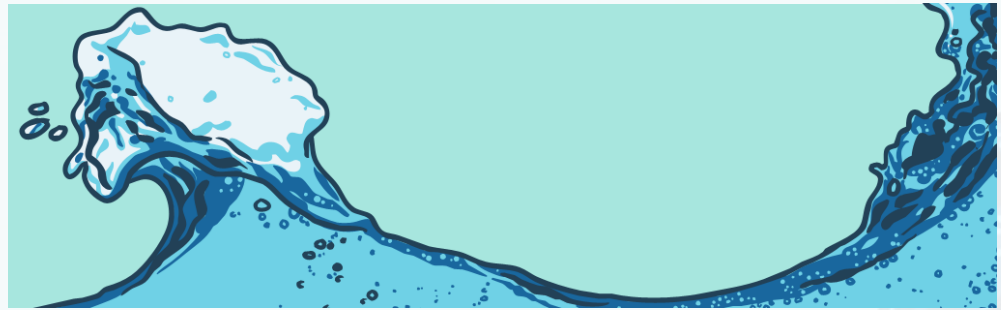
- I can identify the different states water can be in.
- I can identify the temperatures at which water changes state.
- I can identify and observe the processes that cause water to change state.

The Three States of Water

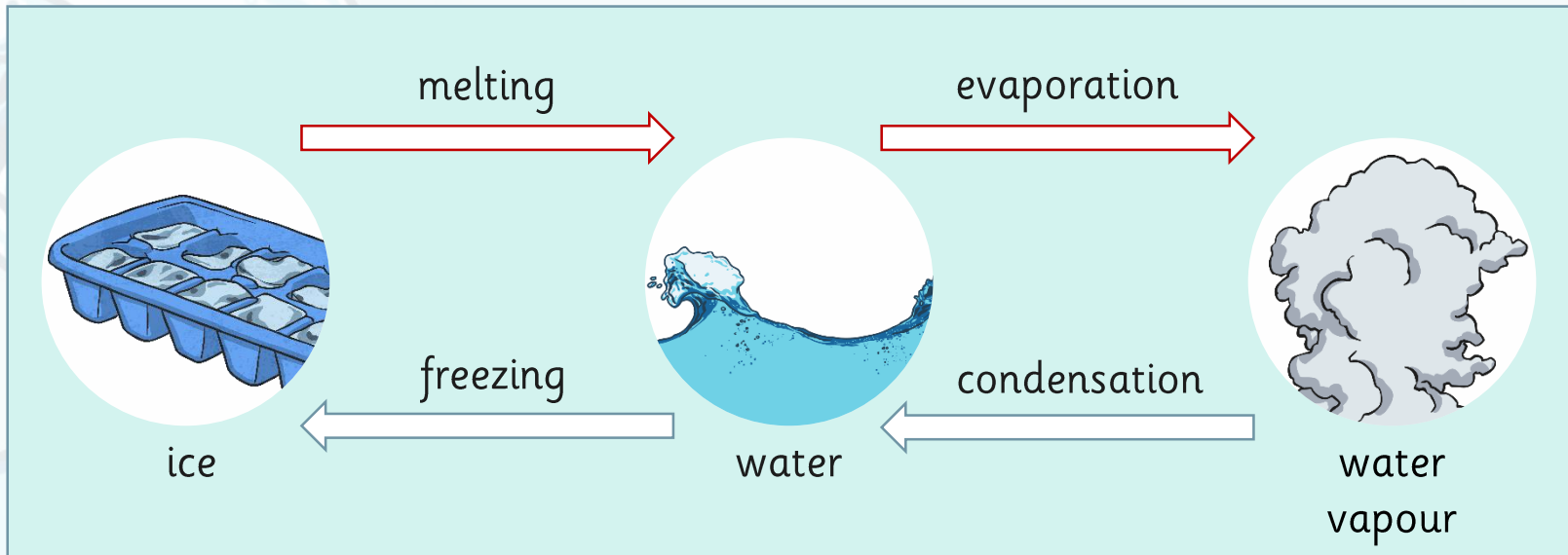
Play this game to find out more about how water changes state, the processes that cause it to change and the temperatures at which it changes.

<https://www.bbc.co.uk/programmes/p0119dmp>

Click
here to
play!



Exploring the Processes



Water changes state as a result of these processes.

You will explore the different processes in a series of activities.

Keep a record of your observations.

Ice Cube Investigation

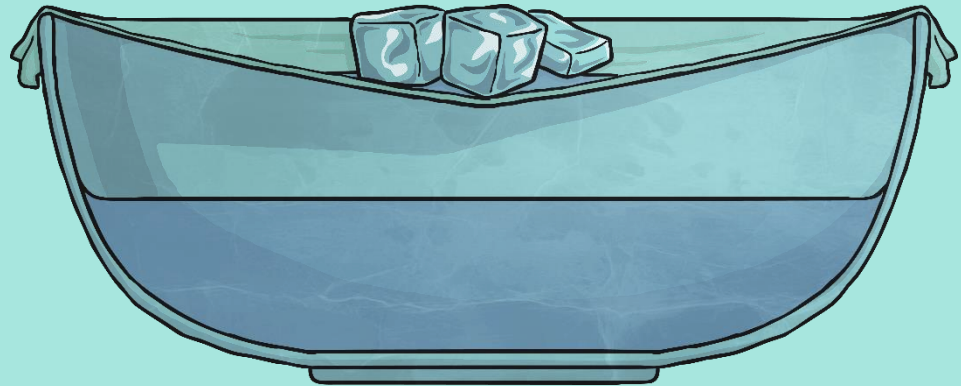


In this activity, you will place two or three ice cubes on some cling film stretched over a container of warm water.

What do you see in the container?

What can you observe on the cling film?

What processes are occurring?



Reversing Changes

Work with an adult for this activity.

Your teacher will boil a kettle. Watch the water vapour form as it boils.

How can this gas be turned back into a liquid?

Can you reverse the change?

Watch your teacher demonstrate this process.

What can you see?

Which processes have you observed?

How has the temperature caused these processes?



Salt and Ice



Put two ice cubes in two beakers. Put a teaspoon of salt on one ice cube, and observe what happens over a few minutes.

Use a thermometer to observe how the temperature in the beakers changes.

What do you notice happening to the two ice cubes?

What process is occurring?

What happened to the temperature in the different glasses?

