

# Melting and Freezing

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LO: I UNDERSTAND HOW WATER REACTS TO COOLING AND HEATING.

## Recall - Solids, liquids and gases

1. Takes the shape of the container it is poured into.
2. Keeps its own shape
3. Flows easily along a pipe
4. Will not flow along a pipe
5. Turns into a liquid when it melts

## Quiz.

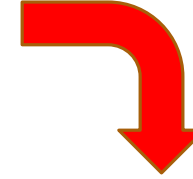
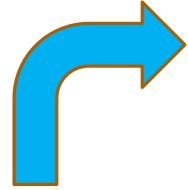
6. Turns into a gas when it boils
7. Spreads out in all directions to fill a space
8. Can be easily compressed
9. Cannot be easily compressed
10. Turns into a solid when it freezes

## Oracy Task

We will be learning about the properties of water. Can you put these words in to sentences to describe water?

<b>freezes</b>	<b>melts</b>
<b>condenses</b>	<b>evaporates</b>

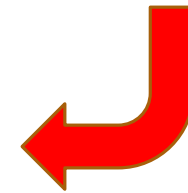
Cold



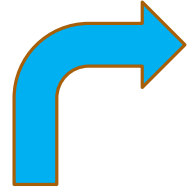
What is happening to the water in the four images?



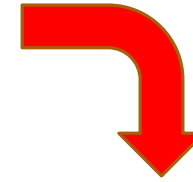
Hot



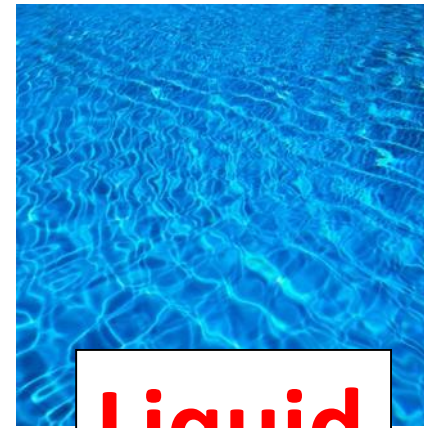
Cold



**Solid**



**Liquid**

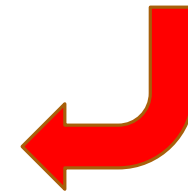


**Liquid**

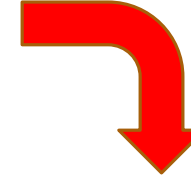
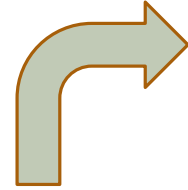
**Gas**



Hot



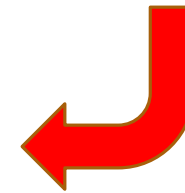
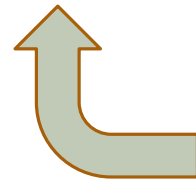
Cold



At what temperature do you think these changes take place?



Hot





Cold

Freezing

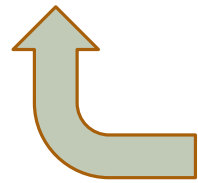


Melting

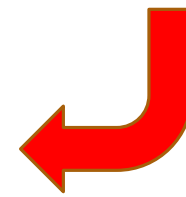


0 degrees  
and below

Condensing



Evaporating



100 degrees

Hot

You will need **4 cups** and some **frozen ice** for the following experiment. If possible, use four similar sized cups and cubes of ice.





## The ice experiments

Put the ice in different places and record the changes every 4 minutes.

	This is what the ice looked like after 1 minutes	This is what the ice looked like after 2 minutes	This is what the ice looked like after 3 minutes	This is what the ice looked like after 4 minutes
On the radiator				
On the window sill (open window)				
On the window sill (closed window)				
On a table				

When you have collected your results, you will need to explain what has happened to the ice.

You must use scientific vocabulary like:

- melted
- evaporated
- temperature
- located
- rapidly
- frozen
- thawed
- warmer
- cold
- ice
- changed
- Container
- hard/solid
- Liquid/fluid