

Science - Home learning - States of matter

L.O: I understand how heating and cooling changes the state of water.

Water can be found in all 3 states, as a solid, a liquid, or a gas!



As the temperature of water is changed, it causes a reaction which alters the state of the water.

Evaporation is a process where when water is heated, it turns into a gas called water vapour. This usually happens at the boiling point of water, which is 100°C , but it can happen at lower temperatures too, like when a puddle outside dries up in the sun.



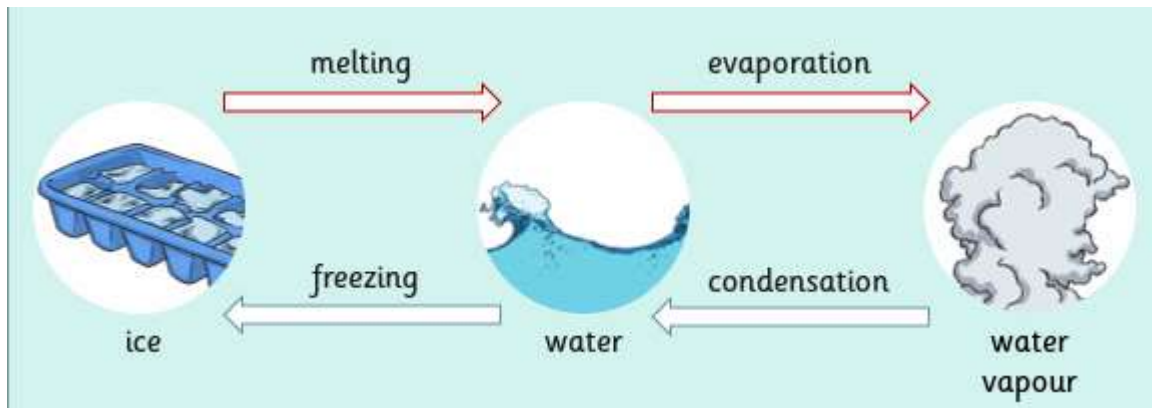
When the water vapor hits something cold, it turns back into a liquid again, this is called condensation.

When water is put in a really cold place, and its temperature drops below 0°C , it turns to a solid called ice. This process is called freezing.



Melting occurs when ice warms up and changes to back water again.

These processes can happen on a continual loop as they are all reversible changes.



Can you answer the questions below?

Questions	Answer
1. What is the solid state of water called?	
2. At what temperature does water freeze?	
3. What is the process whereby ice turns to water?	
4. At what temperature does water boil?	
5. What is the name for water when it is in a gaseous state?	
6. What is the name of the process that turns water to water vapour?	