

Aim

• I can identify and describe the different stages of the water cycle.

Success Criteria

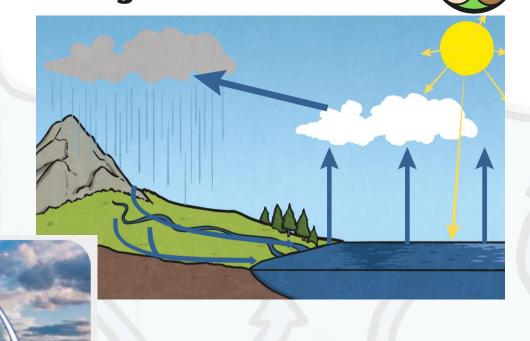
- I can describe the different stages of the water cycle.
- I can explain the role of evaporation and condensation in the water cycle.

States of matter and the We have learnt that water water cycle.

vve have learnt that water can exist in 3 states:

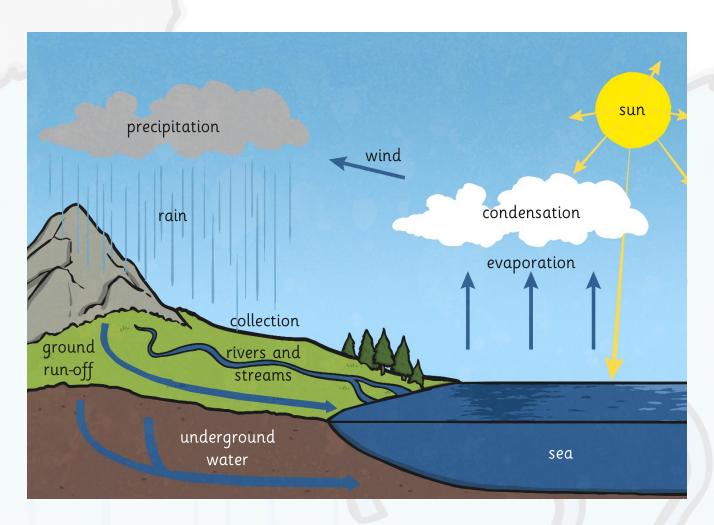
solid, liquid and gas

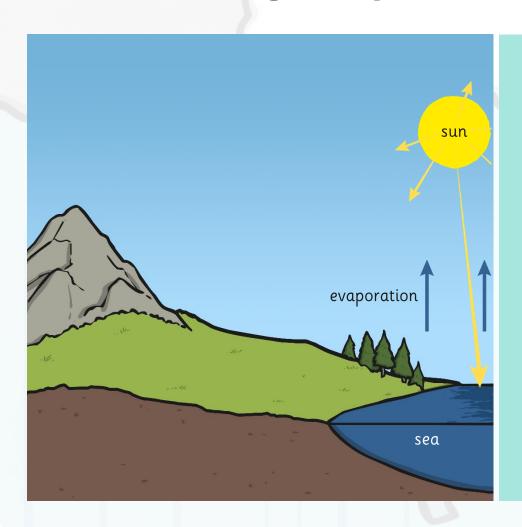
Today we are going to learn about how the change in states water plays a role in the water cycle.



What Is the Water Cycle?

https://www.bbc.co.uk/bitesize/topics/zkgg87h/articles/z3wpp39



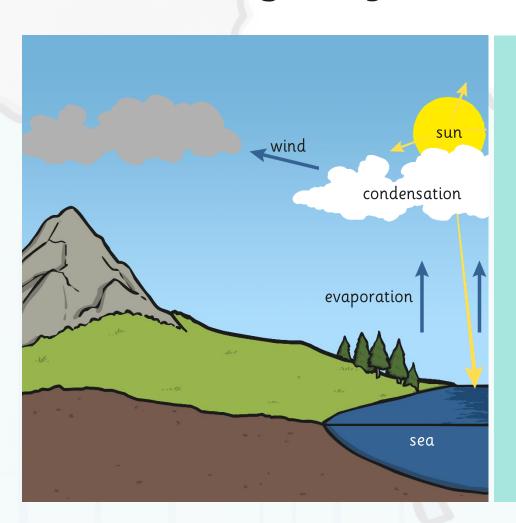


Evaporation

Heat from the Sun causes water to evaporate from seas, lakes, rivers and streams. Water also evaporates from puddles and ponds.

This evaporation happens even on cloudy or cold days.

The liquid water turns into water vapour when it has evaporated.

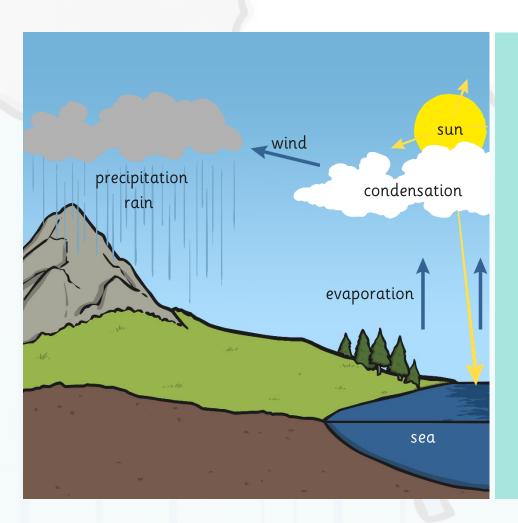


Condensation

The water vapour in the air rises, and as it does so, it cools down.

Eventually, it cools enough for the water vapour to condense and form small droplets of water.

The droplets of water clump together to form clouds.

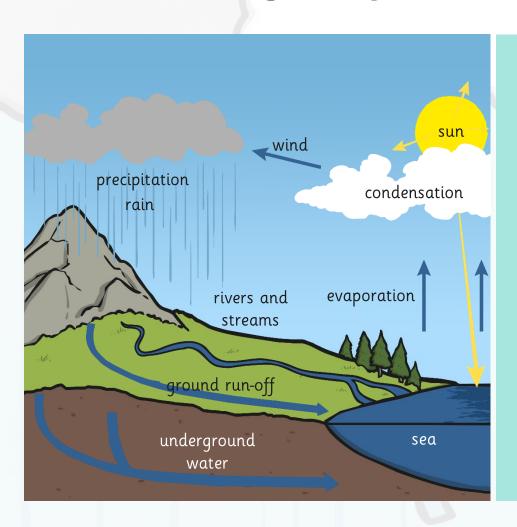


Precipitation

As more water vapour condenses, more water droplets are formed in the clouds.

Eventually, the water droplets are large enough and heavy enough to fall back to the surface of the Earth.

These droplets of water fall from the clouds in the form of rain, sleet, hail or snow.

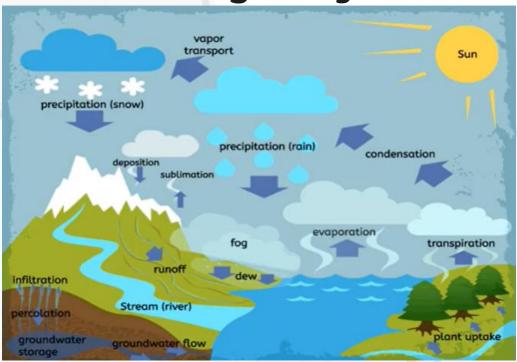


Collection

When water falls back to Earth as precipitation, the water may fall on oceans, lakes, rivers or on the ground.

Water that falls on the ground is either absorbed into the soil, and is used as drinking water for animals and plants, or it runs over the ground and collects in the oceans, lakes and rivers.

This water is then evaporated and the cycle starts all over again!



https://www.youtube.com/watch?v=msVNYOV777A

This clip explains the water cycle again and adds some extra details.

https://www.youtube.com/watch?v=y5gFI3pMvoI

This video reminds us of the importance of water for all living things

Listen out for the key vocabulary relating to changes in states of matter:

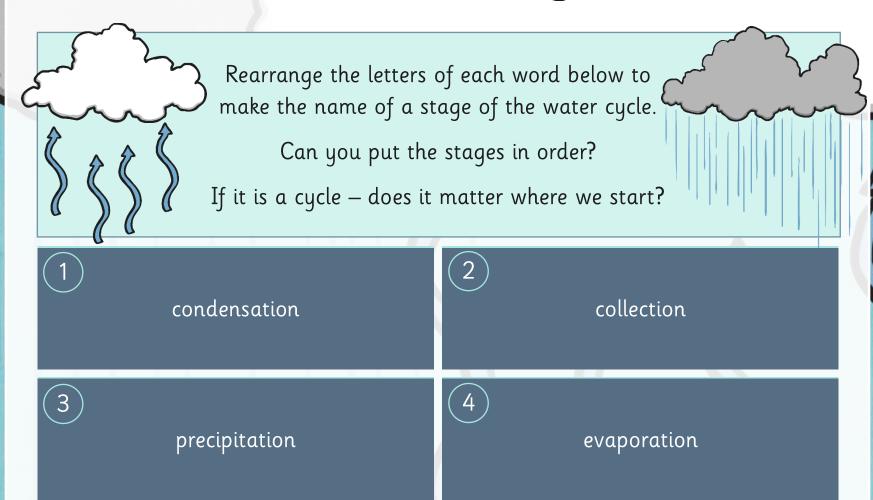
Evaporation

Condensation

Gas Liquid



Sort the Stages

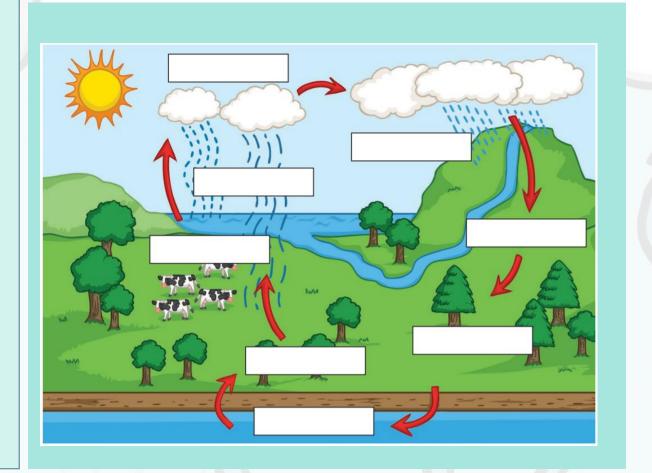


The Water Cycle

Complete the water cycle diagram either by printing the sheet or better still drawing your own.

Write a paragraph explaining each stage of the water cycle.

Re-watch the videos to help you or there is an information sheet to read.



The Water Cycle



https://www.you tube.com/watch ?v=TWb4KlM2 vts

Listen to the catchy tune to help you remember the processes involved in the water cycle!

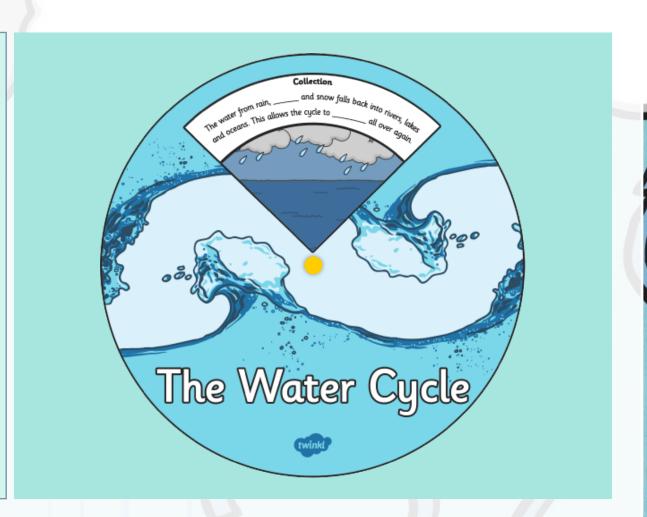


Water Wheel

Can you remember the stages of the water cycle?

Use your knowledge to create this interactive Water Wheel.

If you can't print the water wheel you could draw it.



Mini Water Worlds

You could have a go at making your own mini water world to watch the water cycle in action!
Follow the instructions on your Mini Water Worlds Activity Sheet.

If you don't have any seeds, the cycle will still work with just soil in a cup, watered and covered with cling film. You could also adapt it by using a house plant.

