

Water Everywhere



THINK!

We drink it, wash in it, swim in it, fish in it.
We cook our food with it and wash our clothes in it.
We skate on it when it is frozen and surf on it where there are waves. We make electricity from its movement.
It can be as strong as a rock and as invisible as steam.



Experiment 1



Liquid to solid,
liquid to vapour

FORMS OF WATER

Water is in three forms

- **Liquid** - like a river or lake
- **Solid** - when frozen into ice
- **Gas** - when it is heated and turns into vapour

THE WORLD'S WATER



The atmosphere 0.001%



Lakes & rivers 0.0091%



Ground water 0.625%



Ice-caps & Glaciers 2.15%

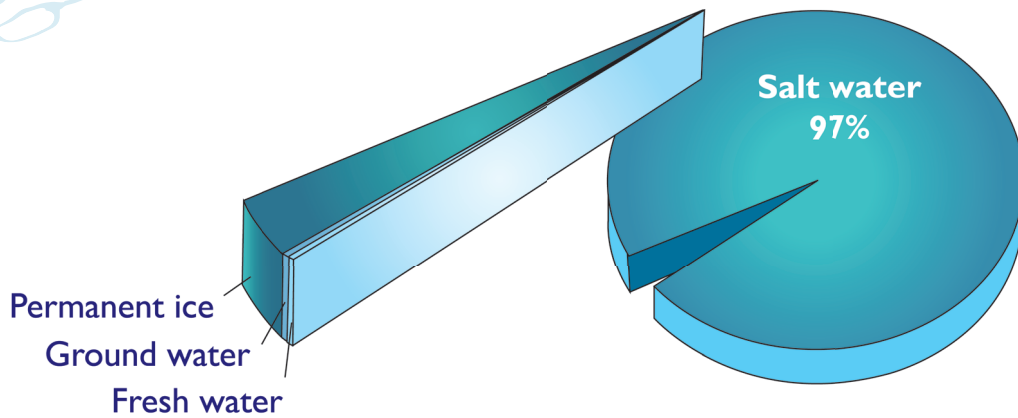
Did you know?

About 2/3 of the earth's surface is covered with water



Activity Card

1B



DISTRIBUTION OF THE WORLD'S WATER

Study the diagram. 97% salt, 3% fresh water - 3/4 of this fresh water makes up the ice in the ice caps at the North and South Poles. 15% of what's left is underground water. So just 1/3 of 1% is available for humans, plants and animals.

ARE YOU SURPRISED BY THIS INFORMATION? WHY?

IF 2/3 OF THE EARTH'S SURFACE IS COVERED IN WATER, WHY DO YOU THINK THERE ARE SHORTAGES, DROUGHTS AND FAMINE?

Activity Card

1C

THE WATER CYCLE

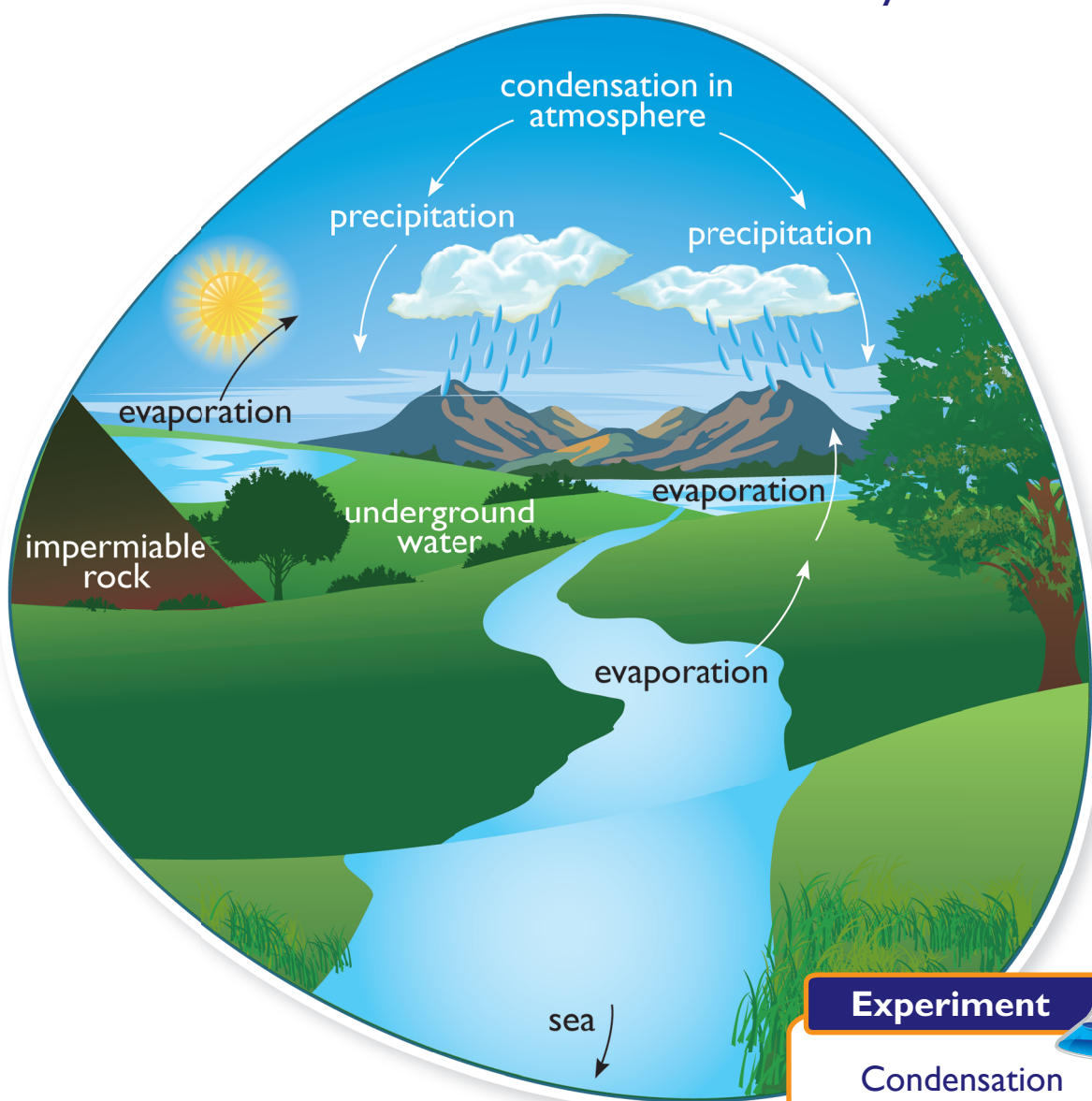
Water is continually being recycled. Water from rivers, lakes and seas is heated by the sun's rays. When this happens, it turns to vapour and rises into the air with wind.

This is called **evaporation**.

As water vapour rises, the air temperature gets colder. The cold air turns the vapour back into droplets. When droplets join together they form clouds. This is called **condensation**.

When the clouds become too heavy, they fall as rain, sleet or snow.

This is called **precipitation**. This water falling on land flows back into streams and rivers and eventually the sea. This completes the **Water Cycle**.



Experiment

Condensation



Activity Card

1D

WATER FOR LIFE

All living things need water to survive - people, plants, animals, fish and even penguins!

Water helps us to survive in many ways - sweat cools down our bodies, tears protect and clean our eyes, urine carries waste from our bodies.

It is important to replace the water we lose from our bodies.

How can we do this?

Humans can survive for weeks without food but we can only survive 3 or 4 days without water.

What would happen to our bodies if we did not have water?



Did you know?

About 2/3 of our BODIES are made up of water

WATER CONSERVATION

We cannot take water for granted. An average person uses about 150 litres of water each day.

Think of ways you could reduce water consumption when

- washing yourself
- washing your teeth
- watering your garden

