



# Science

The Environment



A colorful poster titled "Water Wise" featuring a central globe with six circular icons illustrating the water cycle and conservation. The icons are: a glass of water, a wave, a girl at a faucet, a boy drinking water, a faucet with water running, and a rain cloud raining. The title "Water Wise" is written in a large, bold, black font inside a white speech bubble shape in the center of the globe.

# Water Wise

# Aim

- I can set up a test and record the results.
- I can accurately measure water and record my measurements.

# Success Criteria

- I can set up a simple test.
- I can record and interpret the results.
- I can measure an amount of water in ml.
- I can record the amount of water I have measured.

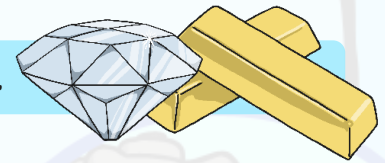
# Water Is Life



We are very, very lucky.

In our classroom today, and in all of our homes, we have one of the most precious things there is.

It's more precious than diamonds and more valuable than gold.



We use it every day.

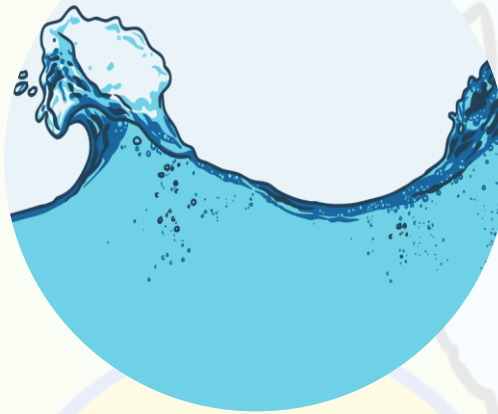


Can you guess what it is?

# Water Is Life



Water!



You might not know this, but water is the most precious thing there is.

Why do you think that water is so important?

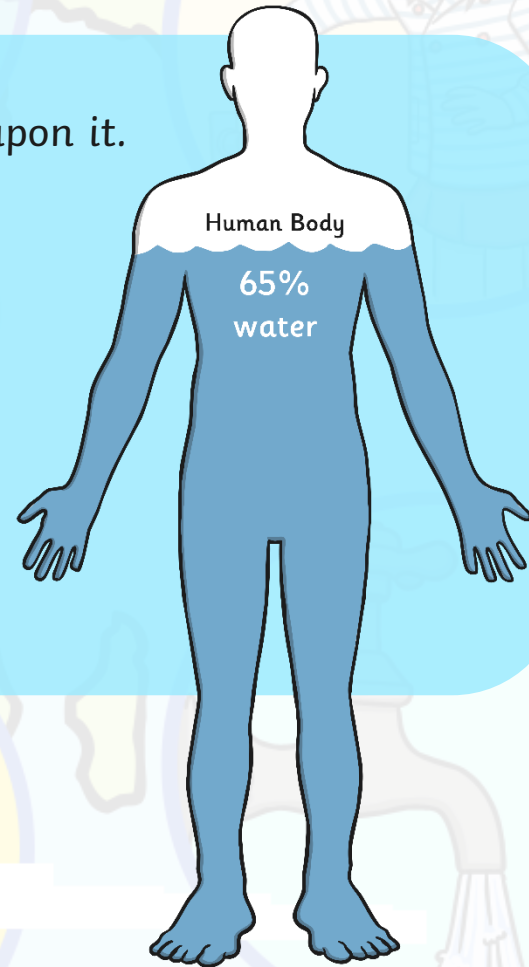
# Water Is Life



Water is so precious because life on Earth depends upon it.

Our lives, the lives of every person in the world, the lives of every single plant and animal depend upon water. Not one living thing on Earth can survive without it!

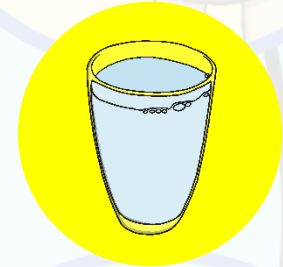
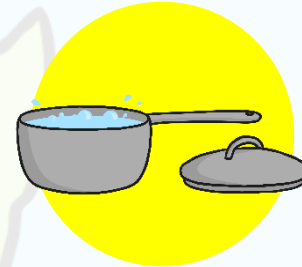
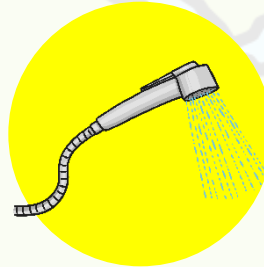
In fact, water is what most of your body is made from!



# Water Is Life



Here are some of the ways that humans use water. Did you think of any others?



# Water Is Life



We are lucky to have clean, fresh, safe water always available everywhere we go.

In many countries around the world, people are not so lucky.

In many developing countries, there is no water supply to houses. Instead, people have to walk several miles every day to collect water. They sometimes have to survive on one bucket of water per day.



What do you think it would be like if your family only had one bucket of water to use every day?

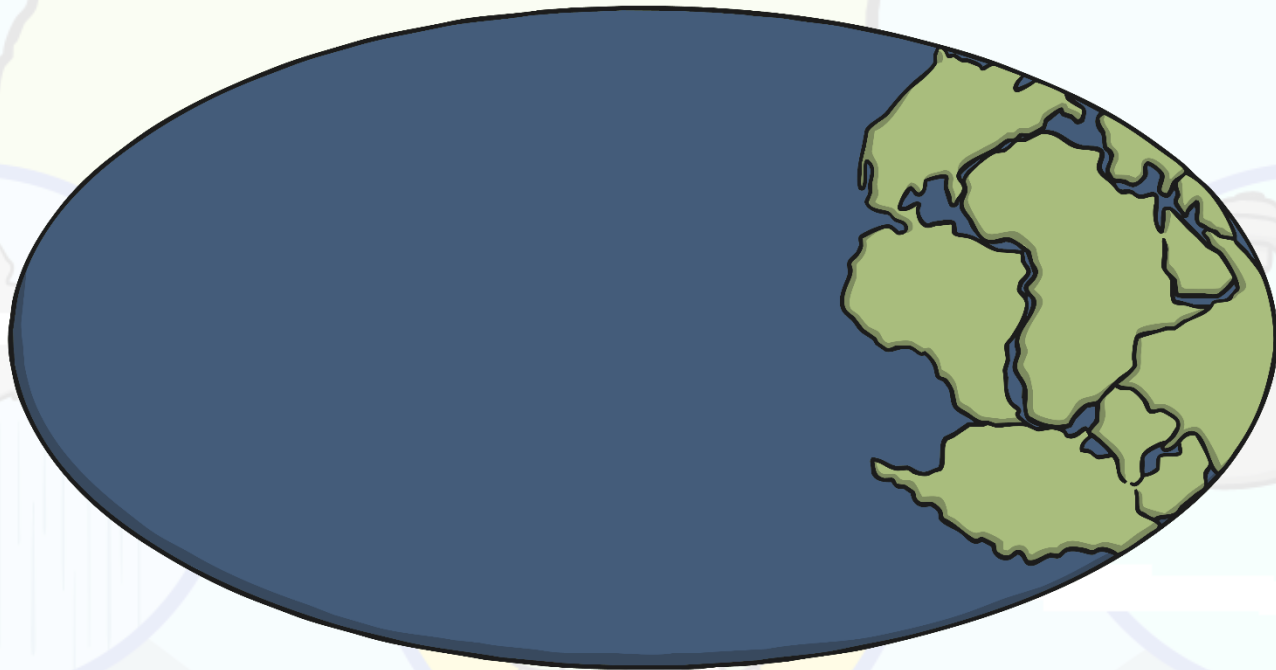


# Every Drop Counts

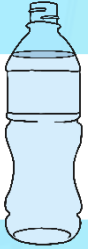
About 70% of the surface of the Earth is covered in water.

If you could push all the land on the Earth together on one side, and all the water on the other, a map of the Earth would look like this.

What a lot of water that is!

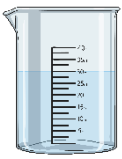


# Every Drop Counts



With all that water, you would think that there would be enough to go around....

But there isn't!



Nearly all the water on the Earth is ocean water. This water is full of salt and minerals, and humans can not drink it.



Only a small amount of all the water on the Earth is fresh water...but most of this is frozen in the ice glaciers of the North and South Poles!



Of the water that isn't ocean and isn't ice, most is far away beneath the ground.

Only a very tiny part of the water on Earth is available for humans to use for all the many things that we need it for.

# Every Drop Counts

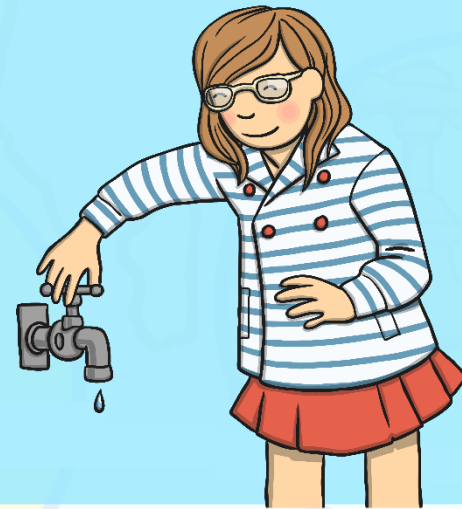
That little bit of fresh water has to go around all the humans, animals and plants on the planet...they can't live without it!

It is important to save water so that there is enough for everyone.

Also, when we use water, it must be cleaned before it is safe for us to use again. Cleaning it uses electricity. Making electricity burns fossil fuels and causes greenhouse gases.

So saving water is good for the environment too!

Saving water is also called **water conservation**.



# Water Wise Investigation



**Water Wise Investigation**

Equipment: \_\_\_\_\_

Method

Prediction

Results	Tap left on	Tap turned off
Amount of water used	_____ml	_____ml

Conclusion

How much water can you save by turning off the tap while you wash your hands?

How could we answer this question?

What equipment would we need?

What will your prediction be?

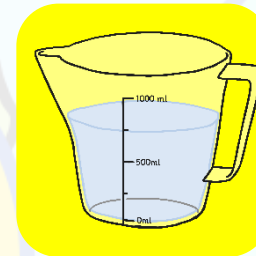
# Water Wise Investigation



You are going to work in pairs to investigate how much water you can save by turning off the tap while you wash your hands.

Washing with the tap left on

- Put a large measuring jug underneath the tap.
- Turn the tap on.
- Wet your hands.
- Use the soap to lather your hands for 30 seconds. Time this with a stop watch.
- Rinse the soap off.
- Turn off the tap.
- Use the scale on the measuring jug to measure the water you have used.
- Record this number on your activity sheet.

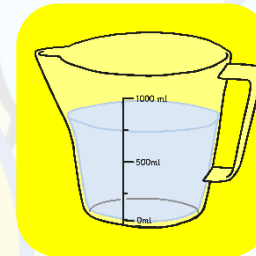
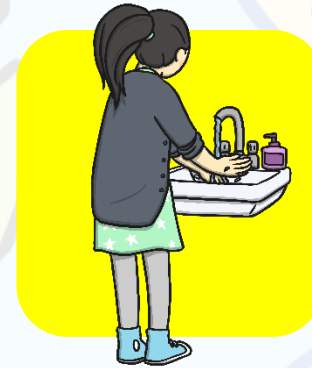


# Water Wise Investigation



## Washing with the tap left off

- Put a large measuring jug underneath the tap.
- Turn the tap on.
- Wet your hands.
- Turn the tap off.
- Use the soap to lather your hands for 30 seconds. Time this with a stop watch.
- Put the tap back on.
- Rinse the soap off.
- Turn off the tap.
- Use the scale on the measuring jug to measure the water you have used.
- Record this number on your activity sheet.



# Water Wise Investigation



## Water Wise Investigation

\_\_\_\_\_

Equipment

Method

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Prediction

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Results	Tap left on	Tap turned off
Amount of water used	_____ml	_____ml

Conclusion

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# Water Wise Investigation



## Conclusion

Is turning off the tap while you wash your hands a good way to save water?

How much water did you save by turning off the tap?





# Can You Be Water Wise?




Can you think of other ways to be water wise?

How can you help by saving water at school and at home?

**Being Water Wise**

In each space, draw and label a way that you can be water wise by helping to save water at school or at home.




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