The Environment: Water Wise

Aim:	**Success Criteria:**	**Resources:**
Performing simple tests, by investigating how much water can be saved by turning off the tap while washing hands. I can set up a test and record the results. Observe closely, using simple equipment by measuring the different amounts of water used. I can accurately measure water and record my measurements.	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.	**Lesson Pack** 2l measuring jugs- 1 per pair Stop watch- 1 per pair Soap
	Key/New Words: Water conservation, ocean, fresh water, salt water, groundwater.	**Preparation:** Differentiated **Water Wise Investigation Activity Sheet** - 1 per child **Being Water Wise Activity Sheet** - 1 per child

Prior Learning: Children will have learnt about climate change and fossil fuels in Lesson 1.

Learning Sequence

Water is Life: Using the questions on the **Lesson Presentation**, prompt children to consider why water is so important for humans and other life on Earth. Give children time to consider the questions with a partner before feeding back to the rest of the class. Invite children to discuss what it would be like to survive on such a limited amount of water.

Every Drop Counts: Using a litre of water, demonstrate to children the proportion of the Earth's water that is available for human use.

- Pour 30ml of water from the litre into a small measuring beaker. This represents the proportion (roughly 3%) of fresh water to the total amount of water on Earth. The amount remaining in the bottle represents the proportion of ocean salt water on the planet (97%).
- Of the water in the beaker, pour 10ml onto a dessert spoon. The remaining 2% in the beaker represents the fresh water that is frozen in the icecaps and glaciers of the North and South Poles.
- The water in the spoon represents the proportion of water on Earth that is not ocean water or ice (1%). Most of this 1% exists as groundwater deep underground and is not easily accessible to humans.
- Put one drop of water on the tip of your finger. This represents the proportion of fresh water that is readily available for drinking and other human use. (Less than 0.1% of the total amount of water on Earth).

(*Source: https://en.wikipedia.org/wiki/Water_distribution_on_Earth*)

Water Wise Investigation Activity Sheet: How much water can we save by turning off the tap while we wash our hands? In pairs, children consider how they could answer the question. Explain that they are going to work in pairs to investigate the answer by measuring the differing amounts of water that they use when washing hands with the tap running and with the tap turned off. Children begin the differentiated **Water Wise Investigation Activity Sheet**.

Children work in a small group supported by an adult to draw equipment and choose a prediction from a list.

Children by draw the equipment and choose a prediction from a list.

Children draw the equipment, explain the method and complete a sentence to write a prediction.

Water Wise Investigation: In pairs, children follow the instructions on the **Lesson Presentation** to perform the investigation and record the results on the **Water Wise Investigation Activity Sheet**.

Children explain what they have learnt to an adult. Record their response on the **Activity Sheet**.

As a conclusion, children write a sentence explaining what they have learnt.

Children write a more detailed conclusion to explain what they have learnt.

Can You Be Water Wise? Using the Being Water Wise Activity Sheet, children draw and label ways that they can help to save water at home and at school.