

Levels : First and Second

Duration: 60 mins

Maximum Number of Pupils: 48

What to Expect

We will take pupils on a journey around arguably the most important processes on our planet: The water cycle.

We first look at the 3 states of matter – solids, liquids and gases, and introduce the pupils to molecules and water can change between each of these. We will cover each stage of the water cycle through interactive demonstrations and experiment. We look at the importance of the water cycle, how humans interact and affect it, and what we can do to preserve it. We will also look at the process of water filtration and make water filter of our own.

What is Covered

- States of matter and how water changes between solid/liquid/gas
- The processes involved in the water cycle
- How to conserve water and live in a more environmentally friendly way
- Issues arising from lack of clean water and how to deal with this

Curriculum for Excellence links

We have identified the Curriculum for Excellence experiences and outcomes to which this workshop can most significantly contribute (please see the next page):

First Level
SCN 1-05a

By investigating how water can change from one form to another, I can relate my findings to everyday experiences.

First Level
SCN 1-20a

I have contributed to discussions of current scientific news items to help develop my awareness of science.

First Level
LIT 1-09a

When listening and talking with others for different purposes, I can exchange information, experiences, explanations, ideas and opinions, and clarify points by asking questions or by asking others to say more.

First Level
LIT 1-28a

I can convey information, describe events or processes, share my opinions or persuade my reader in different ways.

First Level
SOC 1-07a

I can describe and recreate the characteristics of my local environment by exploring the features of the landscape.

Second Level
SCN 2-05a

I can apply my knowledge of how water changes state to help me understand the processes involved in the water cycle in nature over time.

Second Level
SCN 2-18a

I have investigated different water samples from the environment and explored methods that can be used to clean and conserve water and I am aware of the properties and uses of water.

Second Level
SCN 2-16a

I have participated in practical activities to separate simple mixtures of substances and can relate my findings to my everyday experience.

Second Level
LIT 2-09a

When listening and talking with others for different purposes, I can: share information, experiences and opinions, explain processes and ideas, identify issues raised and summarise main points or findings, clarify points by asking questions or by asking others to say more.

Second Level
LIT 2-28a

I can convey information, describe events, explain processes or combine ideas in different ways.

Second Level
SOC 2-07b

I can describe the physical processes of a natural disaster and discuss its impact on people and the landscape.

Second Level
SOC 2-13a

I can explain how the physical environment influences the ways in which people use land by comparing my local area with a contrasting area.