

Year 4

Water

Our Planet

Key learning

Know and understand where the Earth's water is found.

Understand the three states of matter.

Describe and understand the key aspects of the water cycle.

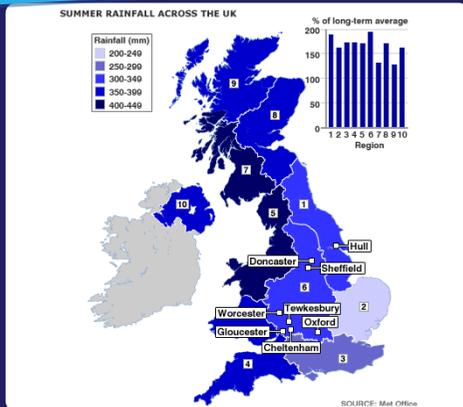
Explain how clouds and rain are formed.

Describe how and why water is cleaned.

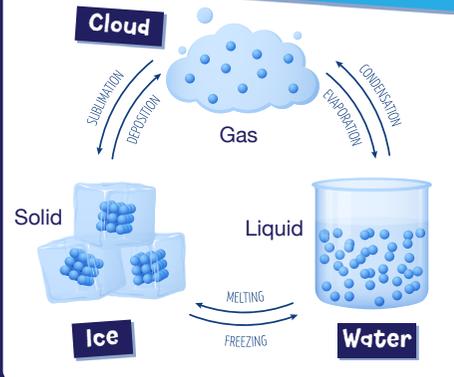
Understand the causes and effects of flooding.

Understand the causes and effects of water pollution.

Average Summer rainfall across the UK



The three states of matter



Key Geographical Information

Water is essential for life. Without it you could only live for 3 days.

Water is a resource that cannot be created by man.

The sun is the driving force of the water cycle.

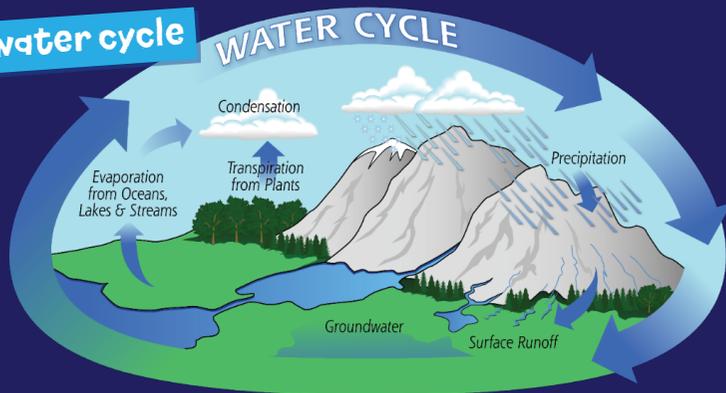
About 70% of the Earth's surface is covered with water.

Groundwater or water stored in the Earth's surface can remain there for thousands of years before moving.

Water is constantly being recycled so the water you drink today could be the same water dinosaurs drank millions of years ago.

Only about 3% of the water on Earth is freshwater or water that we can drink.

The water cycle



Geographical Vocabulary

Evaporation - The process of turning liquid into water vapour.

Transpiration - Transpiration is the process by which water evaporates from plant leaves into the atmosphere.

Condensation - When water evaporates into the atmosphere, it cools and condenses to form clouds through a process called condensation.

Precipitation - When the clouds get too heavy from collecting water, they release it through a process called precipitation. Precipitation can occur in the form of falling rain, sleet, snow, or hail.

Surface run-off - Surface run-off is water, from rain, snowmelt, or other sources, that flows over the land surface, and back into a stream, river or sea.

Flood plain - An area of low-lying ground adjacent to a river, formed mainly of river sediments and subject to flooding.

Infiltration - Infiltration is the process by which precipitation or water soaks into subsurface soils and moves into rocks through cracks and pore spaces. As we mentioned before, the bulk of rainwater and melted snow end up infiltrated

States of matter - There are three states of matter: solid, liquid and gas.

Water Vapour - When the heat from the sun causes water to turn into a gas it is referred to as water vapour.