Hedgehogs Knowledge organiser Matter Matters (Hedgehogs Autumn 2)

ESSENTIAL WATER CYCLE VOCABULARY	
evaporation	The process of turning from liquid to vapour.
transpiration	The evaporation of water from a plant's leaves, stem or flowers.
precipitation	Rain, snow or sleet that falls to the ground.
seep	When a liquid flows or leaks slowly through small holes.
ocean	A very large expanse of sea.
filter	Passing something through a device to remove unwanted material.
condensation	The conversion of a vapour to a gas or liquid.
absorb	Take on or soak up water.
rainfall	The quantity of rain falling.
valley	A low area of land between hills or mountains.
moisture	Water or liquid in a small quantity.

Precipitation

Condensation continues to happen and more water gathers. When they become heavy enough, they fall to Earth as rain or snow.

Runoff

As precipitation occurs, water is absorbed into the earth. It is then used by plants to grow. Some water may also run into the oceans, seas and rivers.

What is the Water Cycle?

It is the journey that water takes as it is transported from the seas and other water on the ground up to the sky and the back again.

The cycle consists of evaporation, condensation, precipitation and transpiration.

Continuous Cycle

The water cycle never ends! The same water is recycled over and over again, meaning that it is has been there for millions of years.

There would be no life on Earth without the water cycle as plants and animals need water in order to survive.

Essential reads:





Condensation

As the water vapour rises, it cools and condenses to small droplets of water.

They form clouds.

Evaporation

Heat from the sun evaporates the water from seas, lakes, streams and puddles. This turns the water to water vapour and it rises.

Flooding

Flooding can happen for a variety of different reasons.

- · Too much rainfall causes rivers to burst their banks.
- Rainfall is so heavy that it can not drain away quickly enough.
- · High tides and storms at the coast.
- Broken water pipes.

Previous Learning - Pupils have learned about the river Nile in Egypt as part of their study on Ancient Egypt. They can name our local river, the Thames, and know where it is located. **Intended Learning** - Pupils will compare the two rivers in a case study, following field work where pupils will act like geographers and take measurements in order to complete a river profile.