

Hemingbrough Geography Curriculum

Theme: Water Cycle

Phase: Lower Key Stage Two

Year Group: 4

Strand: Locational Knowledge / Human & Physical Geography

By the end of the theme I should be able to:

- Describe and understand key aspects of the water-cycle.

In Year 1 & 2 I should already have learned to:

- Evaporation happens when water (a liquid) turns into water vapour (a gas) when it is heated.
- Condensation happens when water vapour (a gas) turns into small water droplets (liquid) when it is cooled.
- Plants absorb water through the soil to help them grow.

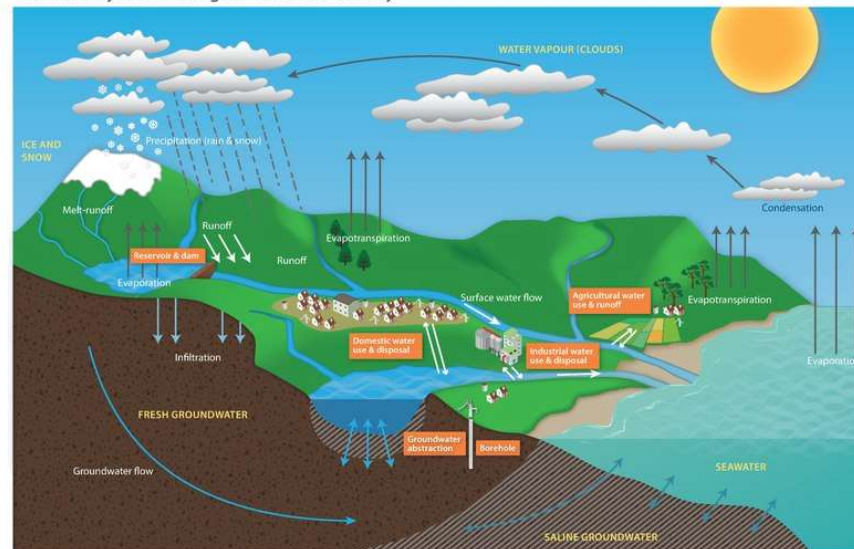
KEY VOCABULARY

absorb	Take in or soak up liquid.
atmosphere	The layer of air / gases surrounding the earth or another planet.
condensation	The conversion of a vapour or gas to a liquid and collects as droplets on a cold surface.
evaporation	The process of turning from liquid into vapour.
gas	A substance in a state in which it will expand freely to fill the whole of a container, having no fixed shape or volume.
groundwater	Water held underground in the soil or in pores and crevices in rock.
liquid	A substance that flows freely but is of constant volume.
precipitation	Rain, snow, sleet, or hail that falls to or condenses on the ground.
run-off	Rain exceeding the amount absorbed by the ground.
surface	The flat top part of something or the outside of it.
transpiration	The exhalation of water from a plant's leaves, stem, or flowers
water vapour	Water in a gaseous state.

KEY SKILLS I WILL LEARN:

- To present what you know about the water cycle using a variety of skills using appropriate vocabulary.
- To observe evaporation and condensation in action by using bowls of water and mirrors /glass.

The water cycle including some human activity



Evaporation

- The Sun makes water evaporate from seas, lakes, streams and puddles.
- When it evaporates, water turns into water vapour.

Condensation

- As water vapour rises, it cools.
- As it cools, condensation happens and it becomes small droplets of water.
- Clouds are made from a mix of dry air and small droplets of water.

Runoff & Transpiration

- As precipitation happens water is absorbed into the soil.
- This is used by plants to grow.
- Water from plant leaves evaporates back into the atmosphere: called transpiration. Water may also run off and enter oceans, seas and rivers.
- Water then evaporates again and the water cycle begins again.

Precipitation

- When the droplets become heavy and large enough, they fall back to the Earth's surface in the form of rain or snow.