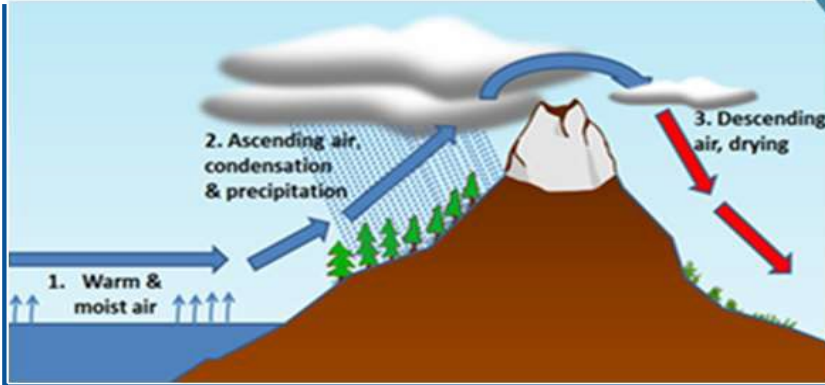
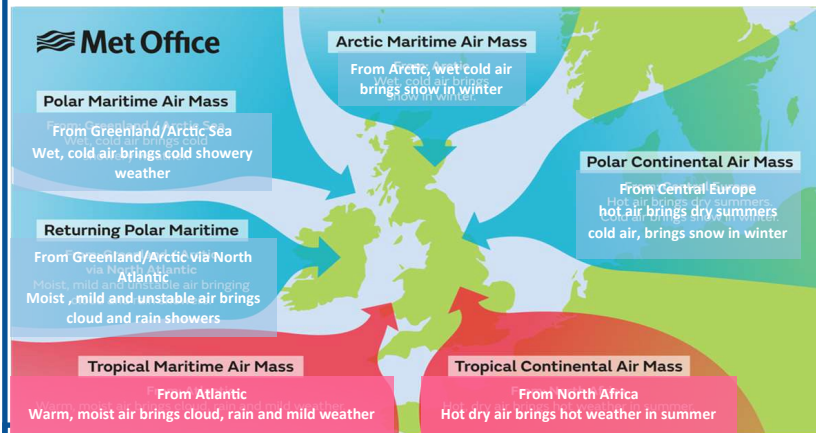


Why does it Rain?



Why does the UK have wild weather?

An **air mass** is an area of air, that brings a certain type of weather condition.



Climate Change:

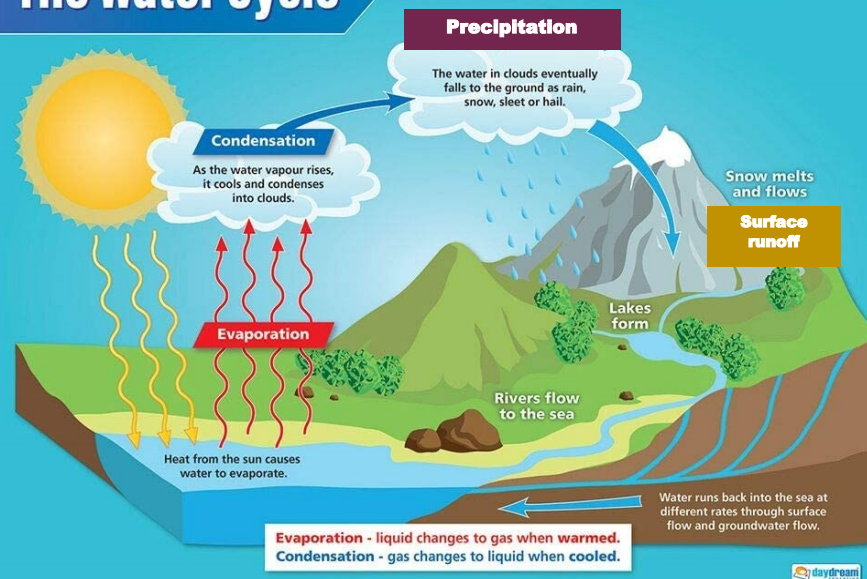
Climate change is the global change in climate patterns.

Climate change is caused by natural and human factors.

Air pollution is an important factor caused by **farming too many cows, greenhouse gases and deforestation**.

The Water Cycle

Water is constantly moving between sea, air and land



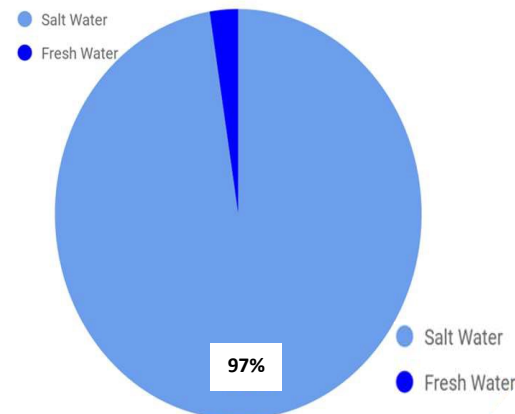
What I should already know:

- The names and locations of the seven continents of the world
- The names and location of the 5 Oceans
- Why our oceans are important
- What lives in an ocean
- How our oceans are being damaged
- Some ways to protect our oceans

Earth's Water

Most of Earth's freshwater is ice or underground.

Earth's Water



Key Vocabulary:

Physical geography – The impact of natural features on an environment.

Weather - The daily variations in temperature, precipitation, cloud, wind and sunshine.

Climate - The long-term patterns of weather in a particular place.

Evaporation - Water changes from a liquid to a gas and returns to the atmosphere as water vapour.

Condensation - Water changes from a gas to a liquid by forming droplets when the water vapour cools down. This process forms clouds.

Precipitation - Water falls from the clouds in the form of rain, sleet, snow or hail.

Surface runoff - Water that flows along the surface of the Earth. It eventually joins a river or **infiltrates** into the earth.

Temperature - How hot or cold a place or substance is.

Climate Change

There are many ways in which humans are adding more gases to the atmosphere, which is trapping more heat and so causing temperatures to rise.



Drought in Western India



Flooding in England

Due to Climate Change, the weather is changing around the world. Some places are becoming hotter and drier and some places are receiving more rain than usual. This is having a devastating impact on people's lives and wildlife around the world.

What I will know by the end of the Unit:

- ♦ Where Earth's water is found
- ♦ What the water cycle is
- ♦ What the weather is made of
- ♦ How to differentiate between weather and climate
- ♦ What causes rain to form
- ♦ How mountains help cause rain
- ♦ What a rain shadow is
- ♦ Why the UK's weather can change daily
- ♦ What an air mass is
- ♦ How the characteristics of the air mass affect the weather
- ♦ How climate change is affecting the world's weather

Air pollution and greenhouse gases caused by humans.



Atmosphere

atmosphere



keeps us **warm**
– like a jacket
for the planet

Image from Pixabay



All weather happens in
the atmosphere

Made up of
different gasses
including **oxygen**
to breathe



Also have an **ozone layer** – which is a
natural gas which
protects us from
harmful rays
from the sun

