

Year 3 Geography

Climate and Weather

Why is climate important?

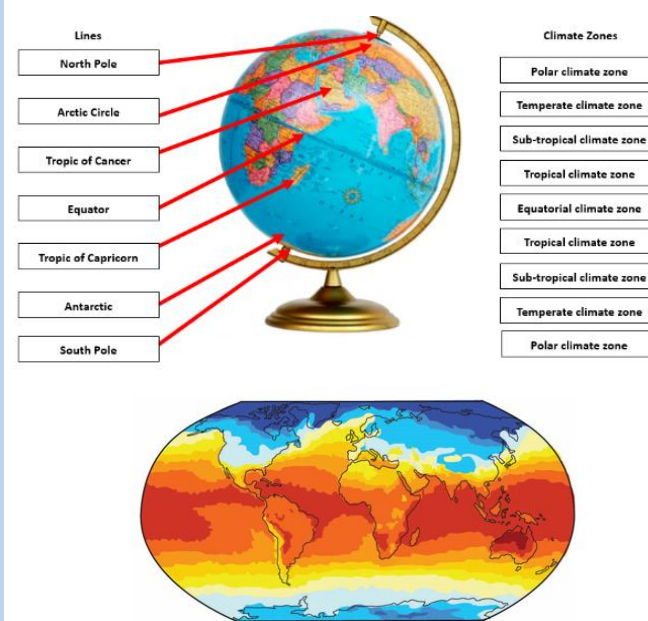
What I should already know:

That there are different types of seasons and weather patterns in the UK.

Lesson 1: What are weather, climate and biomes? (Activity: identify and describe different climate zones)

- There are five main types of biomes: aquatic, desert, forest, grassland and tundra.
- The climate across the world has changed naturally over thousands and millions of years. In the past, the UK has experienced both freezing ice ages and warm tropical climates.
- Today however, because people have been burning fossil fuels to power homes, factories and vehicles, more carbon dioxide has entered the Earth's atmosphere.

Climate zones of the World

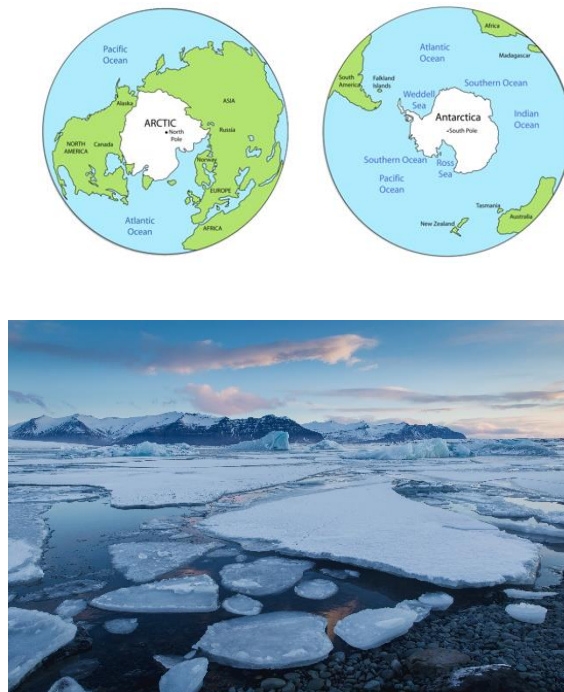


weather	<i>short term weather</i>
climate	<i>long term weather</i>
climate zone	<i>area defined by the long-term weather there</i>
season	<i>time of the year when weather changes</i>
biome	<i>large area defined by climate and what lives there</i>
flora	<i>plant life</i>
fauna	<i>animal life</i>
vegetation	<i>Plant life in one particular area</i>

Lesson 2: What are the polar regions like? (Activity: identify coldest places on Earth and Arctic / Antarctic differences)

- The Arctic is sea surrounded by land while the Antarctic is land surrounded by sea!
- Winter temperatures can drop below **-50°C** over large parts of the Arctic.
- Summer temperatures in the Arctic can occasionally exceed **30°C** in some land areas.
- The coldest temperature recorded in Antarctica was **-89.6°C** at Vostok station in 1983.
- The average winter temperature at the South Pole is about **-49°C**.

North and South Poles

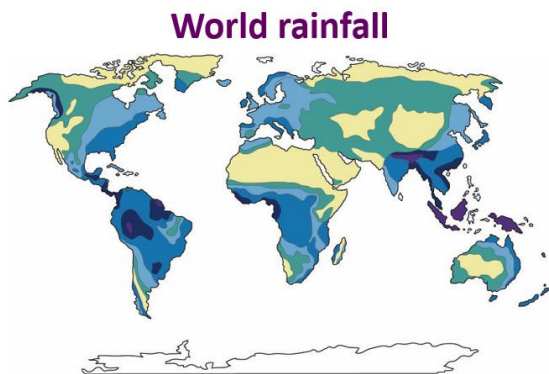


polar	<i>from the North or South Pole</i>
tundra	<i>treeless polar desert</i>
desert	<i>area with very little rainfall or plant life</i>
Northern hemisphere	<i>top half of the world</i>
Southern hemisphere	<i>bottom half of the world</i>
equator	<i>Invisible horizontal line in the exact middle of the world</i>

Lesson 3: Where are the hottest, driest places in the world?

(Activity: identify and locate the hottest driest places. What is the climate like? What kind of flora and fauna is there?)

- The five hottest places on Earth are:
 - Death Valley, USA
 - Al'Aziziyah, Libya
 - Ghudamis, Libya
 - Kebili, Tunisia
 - Timbuktu, Mali
- The highest recorded temperature was 57.8C in Libya.
- The Asian deserts (e.g. Gobi, in China) are cold deserts.

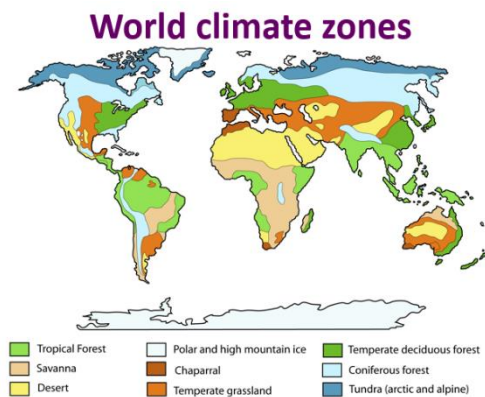


sub-tropical	in between tropical (very hot) and temperate (very mild) zones
Sahara	African desert, largest in the world
arid	extremely dry
precipitation	rainfall
oasis	

Lesson 4: Where are the wettest places on Earth?

(Activity: identify and locate the wettest places on Earth)

- 80% of India's rain falls during monsoons.
- From late May to October the Indian monsoon winds blow from the southwest, over the Indian Ocean and Arabian Sea, bringing with them a huge volume of rain.
- For the rest of the year the wind blows in the opposite direction, so it is a little drier.
- The wettest place on Earth is Mawsynram in India.
- It gets over 11,000mm of rain each year.



monsoon	seasonal heavy rainfall in Asia
torrential	very heavy rainfall
subcontinent	large part of a continent
Indian subcontinent	India, Pakistan and Bangladesh

Lesson 5: What climate zone and biome do we live in?

(Activity: define the UK climate zone and biome and identify key flora and fauna)

- The UK has warm summers and cool winters. Summers are cooler than others in Europe but winters are milder.
- July and August are the warmest months in the UK.
- January and February are the coldest months.
- The west of the UK is the wettest.
- It rains throughout the year.
- The average temperature is 9.3°C

Native flora and fauna



temperate

neither very cold nor very hot

deciduous

trees that lose leaves in winter

native

belonging to that country

climate change

changes in the climate that have been caused by environmental issues

Lesson 6: BIG FINISH – Why is climate important?

(Activity: produce a report based on how climate and biome affect lives)

- Climatic conditions help to shape various ecosystems and habitats around the globe.
- A particular climate can be important to one species and a devastating to another.
- As the climate changes, species and ecosystems respond by adapting, migrating, or reducing their population.



migration

moving from one climate to another

tourism

visiting countries for holidays

Unit Quiz