

Geography year 8: Weather and Climate

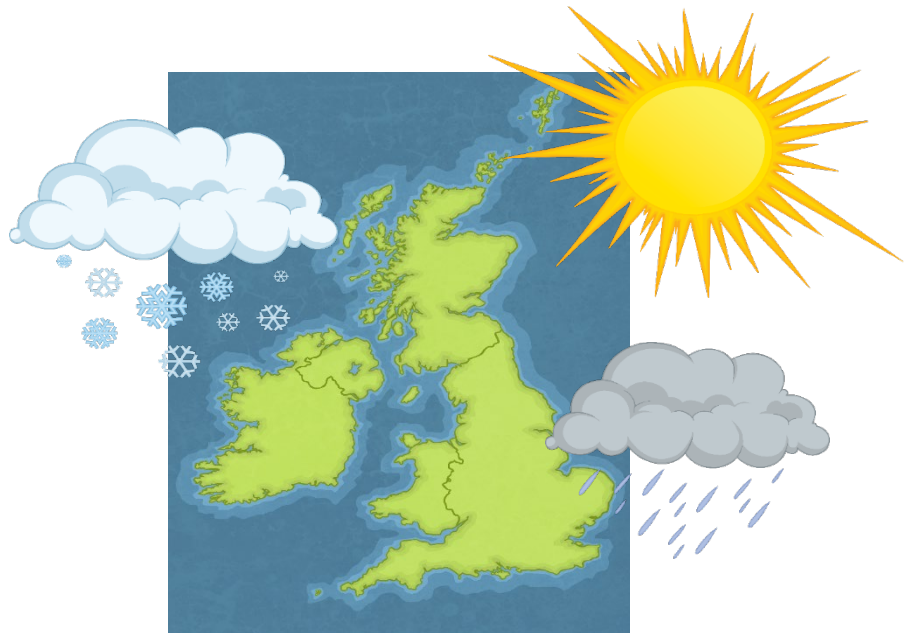
Use the PowerPoint "Weather and Climate phase 3" to help you complete these tasks.

WORLD CLIMATE ZONES

Task 1 (Slide 2, Starter):

Name places that are hotter, colder, drier or wetter than the UK.

- Hotter: _____
- Colder: _____
- Drier: _____
- Wetter: _____



Remember you
can use your
map in your
journal to help
you locate
Countries

Task 2 (Slide 3):

Using the map on Slide 3 name the Climate Zone that the UK is in:

What climate zone or zones are the following countries in?

Australia: _____

Madagascar: _____

New Zealand: _____

Canada: _____

How many Climate Zones do the following Continents have?

North America: _____

South America: _____

Antartica: _____

Task 3 (Slide 5-10)

Read the information on Slides 5-10 about the different climate zones. Using that information, match the zone with the correct description below.

Mountain		This climate zone is located between the Tropics of Cancer and Capricorn. Rainfall and humidity are high all year. Temperatures are high and range from 25-35°C. The annual range of temperature is only a few degrees.
Arid		This climate zone is found between the tropics and the poles and usually has four seasons. It has warmer summers and cooler winters and rain throughout the year.
Temperate		In this climate zone there is little or no rainfall and skies are usually cloudless. Daytime temperatures can reach up to 45°C in the summer. Winters are cooler. There is little or no vegetation in this zone.
Polar		In this climate zone, summers are hot with little rainfall. Winters are cooler with more rainfall.
Mediterranean		These areas are covered by snow and ice throughout the year. Temperatures are usually below freezing and can reach -60°C in winter.
Tropical		In this climate zone, the temperature becomes colder the higher the altitude gets. It also tends to have much wetter climates than the surrounding flat land.

Task 4 (Slides 11-20)

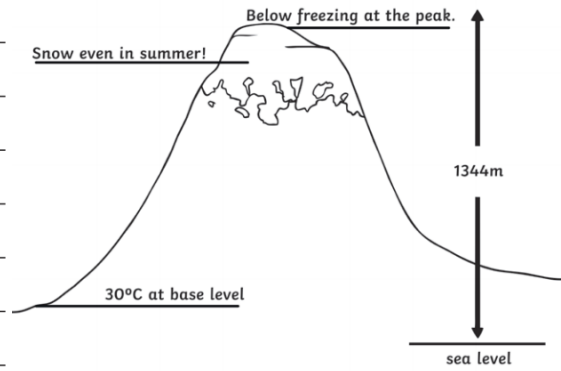
Go to <https://www.bbc.co.uk/bitesize/articles/z79yvk7> and watch the video on weather and climate.

When you have finished watching the video, use the PP slides to help you define the factors that can affect climate.

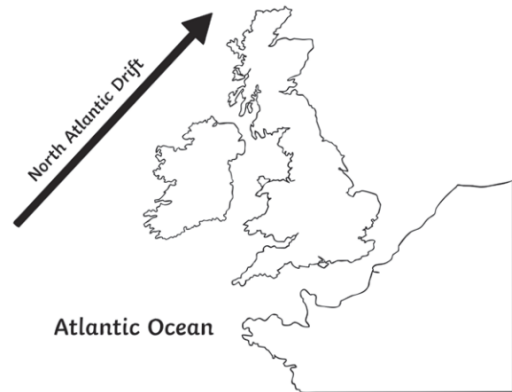
Latitude means...

The diagram shows a globe with latitude lines at 90°N, 60°N, 30°N, Equator (0°), 30°S, 60°S, and 90°S. The North Pole is at the top and the South Pole is at the bottom. The UK is marked in the Northern Hemisphere, and Ghana is marked in the Southern Hemisphere. Three horizontal bands are labeled on the right: 'B' for the Northern Hemisphere (between 30°N and 60°N), 'C' for the Equatorial region (between 30°S and 30°N), and 'A' for the Southern Hemisphere (between 30°S and 60°S). Arrows labeled 'rays from sun' point towards the globe from the right.

Altitude means...



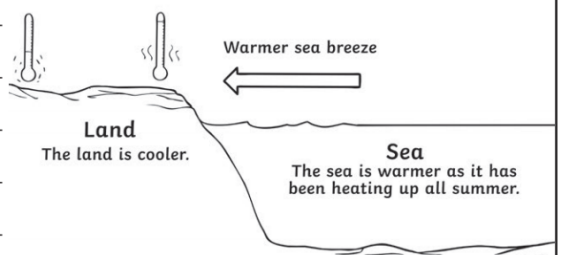
Ocean currents are...



A prevailing wind is....



Distance from the sea means...



Task 5 (Slide 20)

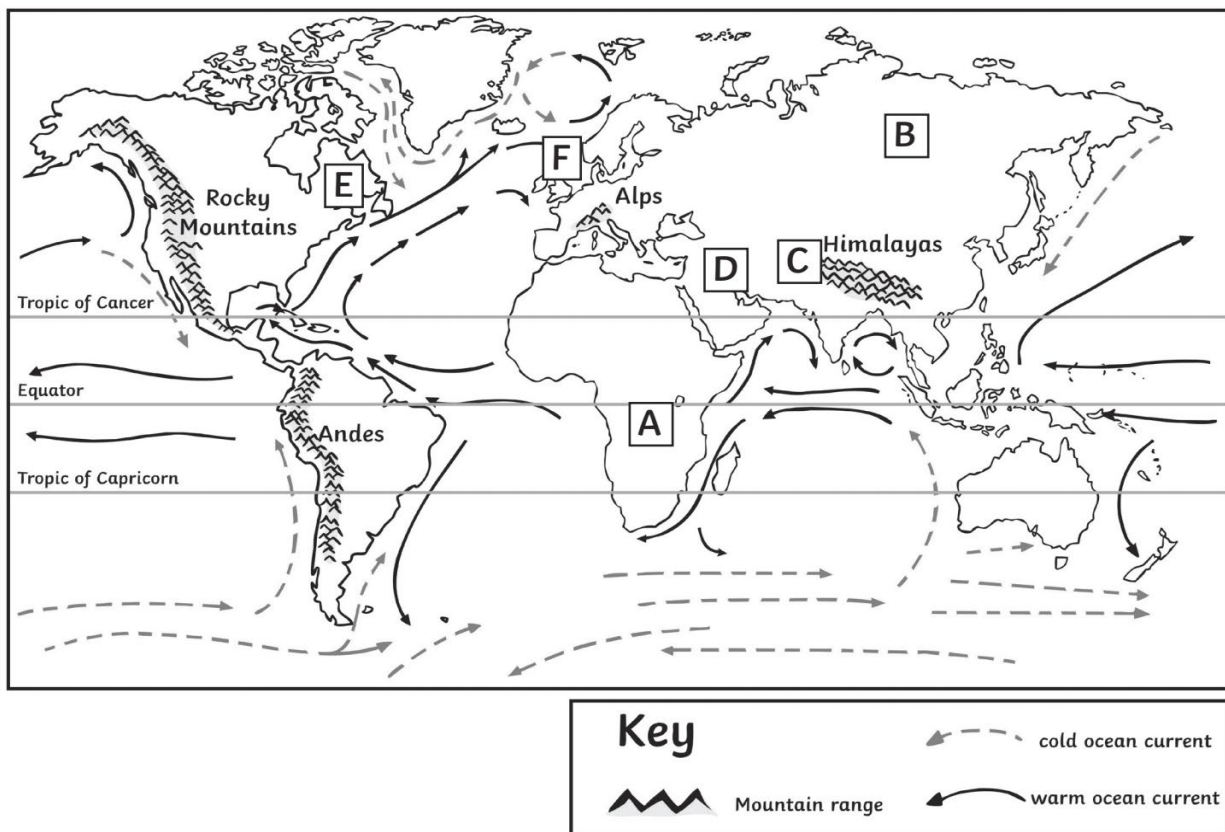
Using the statements on slide 17, answer the true or false questions below. Check your answers on the last slide when you have completed all tasks.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

TASK 6 (Slide 21):

Look at the map below. It shows Mountain Ranges (altitude), Latitude (shown by the tropic of cancer, Equator and Tropic of Capricorn) and Ocean Currents.

Answer the questions below by referring to the map, and your knowledge of the factors that determine climate.



Can you explain why the different places have different climates?

1.

Explain why it is cooler at location A than at location B.

2.

Explain why it is warmer at location D than at location C.

3.

Location E and F are at the same latitude, but F is warmer than E. Can you explain why?

4.

Explain why location F would be wetter than location B.

UK CLIMATE

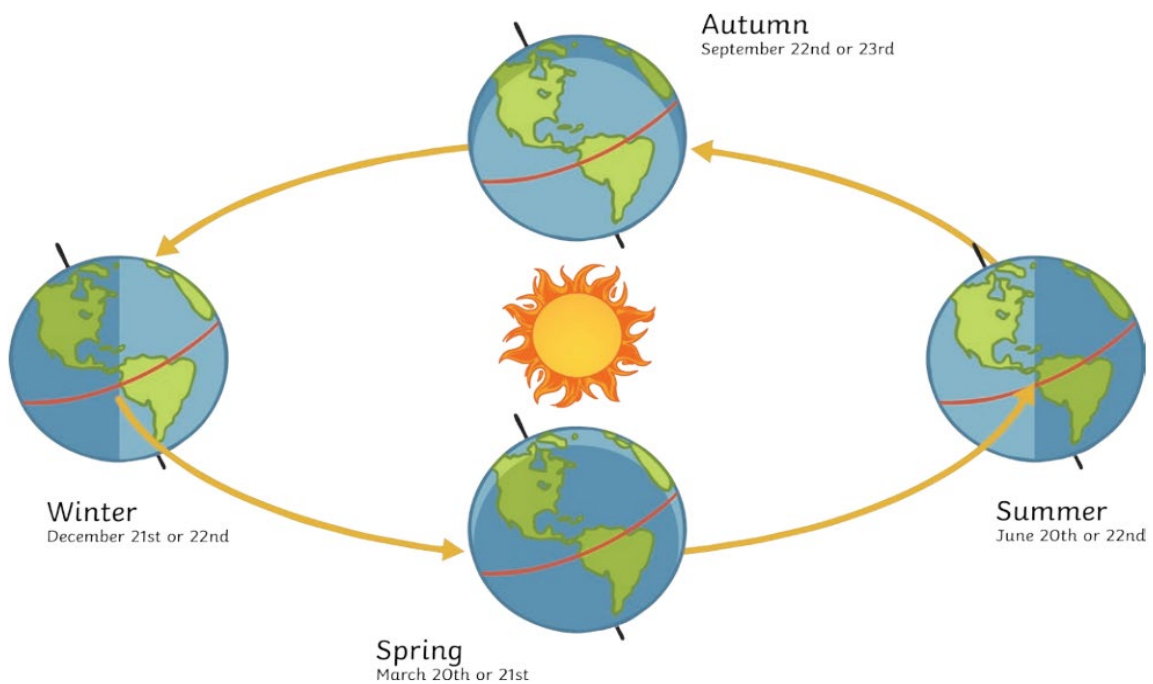
Task 7 (Slide 22)

Referring to the Climate Graph on slide 22, write four different statements about UK climate. The first is done for you as an example:

- On average, there are cooler temperatures in Winter in the UK.
-
-
-
-

Task 8 (Slide 23)

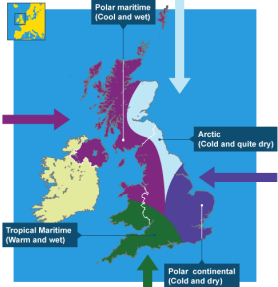
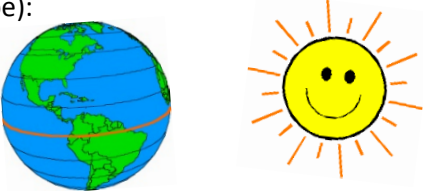

How do seasons affect the UK?



Explain in your own words why the UK has a warmer summer and a colder winter.

UK CLIMATE

Task 9 (Slides 24-29): Under the video you watched on the BBC Bitesize website, there is information on **British Climate**. Read the information on the website and on slides 24-28 and fill out the table below. Remember to summarise the information, not copy it!

Factor	How does this factor affect British Climate?	Challenge: (from slides)
<p>Prevailing Winds</p> 		
<p>Latitude (distance from the equator, shown by imaginary lines around the globe):</p> 		
<p>Ocean Currents</p> 		

<div>Altitude</div> <div></div>		
<div>Distance from Sea</div> <div></div>		