World Biomes and Climate Zones



Learning Objective

• To understand what biomes are and where they are located across the world.

Success Criteria

- To identify where different biomes are located.
- To make links between biomes and climate zones.
- To implement this new knowledge in a piece of extended writing.

What Are Ecosystems and Biomes?

An **ecosystem** is a system of plants and animals which are interconnected and working together.

Some ecosystems are found under a stone or in a pond and are very small, whereas others are very large and cover the majority of a continent.

An ecosystem covering a large area of a continent is called a **biome**.



Types of Biomes

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The second	alpine	Colder climates found at high altitudes in mountain range Populated with coniferous trees such as firs and pines.	
	chaparral	Hot and dry like a desert, but has more rain and therefore more plants and animals, including yucca, trees and cacti, coyotes, deer, lizards and jack rabbits.	
	deciduous forest	Warm, wet and mild areas and dominated by deciduous trees (trees that lose their leaves in the autumn).	
	desert	Deserts are dry; less than 25cm rain per year. They can be hot and sandy or cold and icy. Both hot and cold deserts can support life as long as it is well adapted, such as cacti and silver ants in hot deserts, and penguins in cold deserts.	

Types of Biomes

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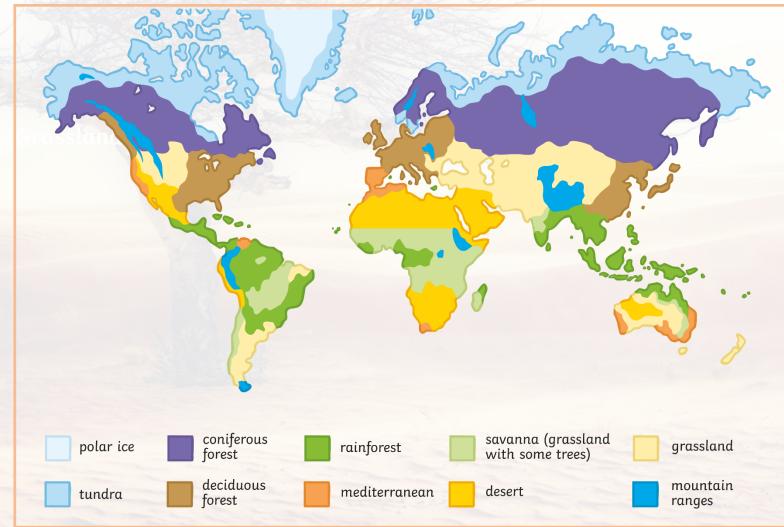
All Start	desert scrub	Very dry areas of hot deserts populated with grasses, herbs and shrubs adapted to live in very arid areas.	
	grasslands	Areas where a variety of grasses grow. There are few other trees or plants apart from near to water sources. The grasslands are very hot places in summer. Some become extremely cold in the winter.	
	rainforest	Warm, wet and humid, rainforests are home to half of the world's species and are populated with dense vegetation and trees. Rainforest animals include sloths, howler monkeys and jaguars.	

Types of Biomes

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	savanna	This is a mixture of grasslands and woodland. There are some trees but they are spread out enough to allow the sunlight to reach the ground and grasses in between. Animals that live here include zebras, giraffes and lions.
	taiga	Very wet and cold, receiving plenty of snow during the winter. Coniferous trees are evergreen and remain green all year round. The soil is not very nutritious and therefore, the variety of vegetation is limited.
	tundra	Cold, harsh and difficult for much vegetation to survive. Found at the top of mountains and the Poles. These areas are snow-covered and all life here is very hardy, including mosses, birds and mountain goats.

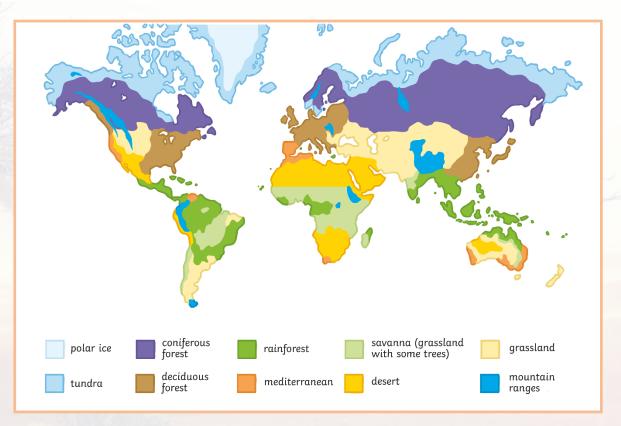
Biome Locations



Linking Biomes and Climates

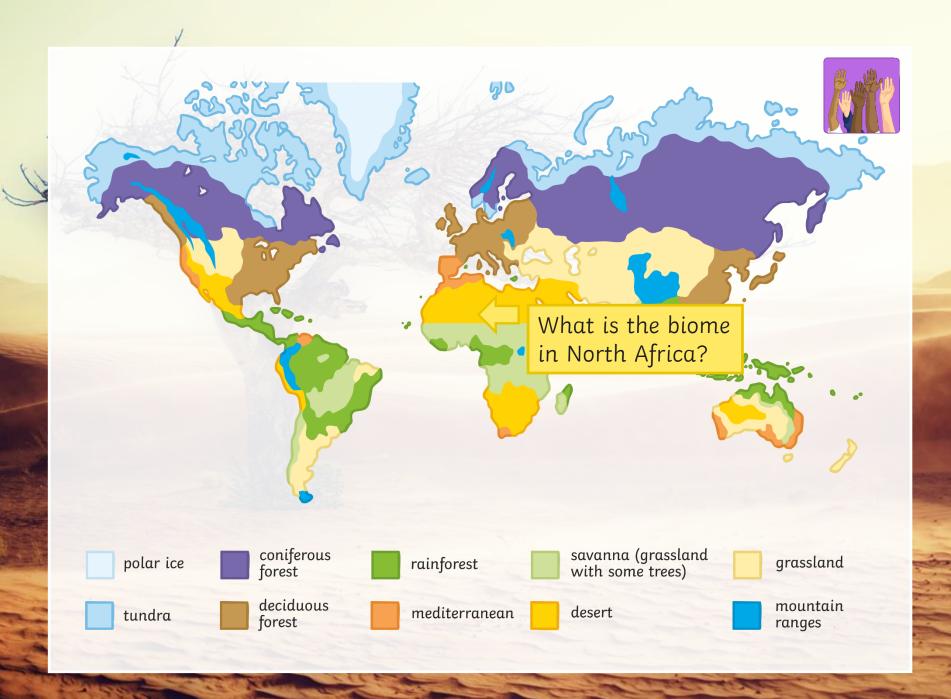
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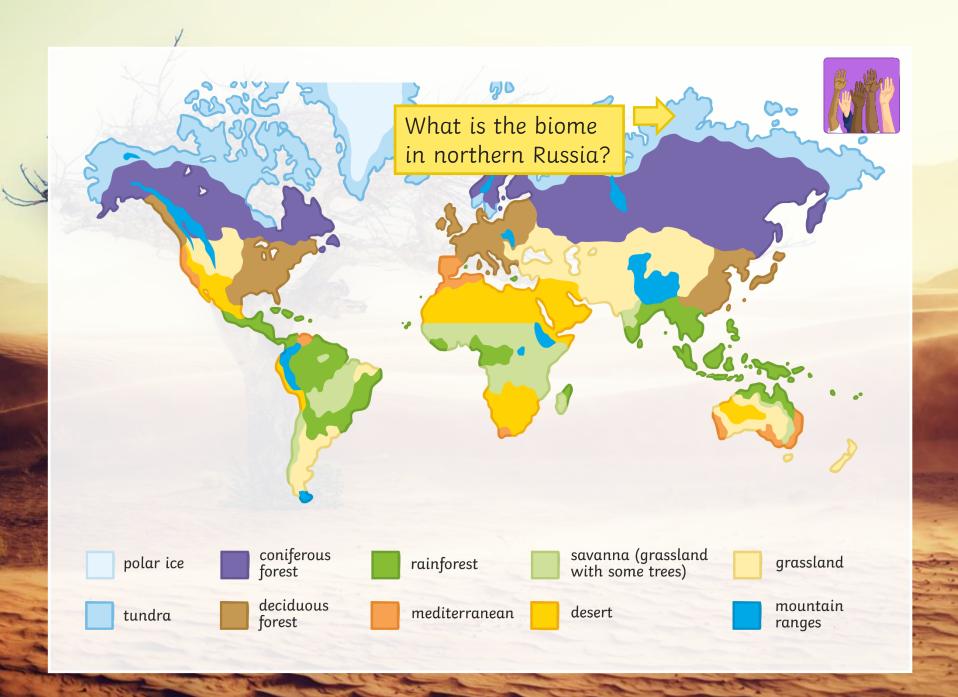
Area	Biome	Climate
North Africa		
Northern Russia		
India		
Central Australia		
Eastern USA		
UK		

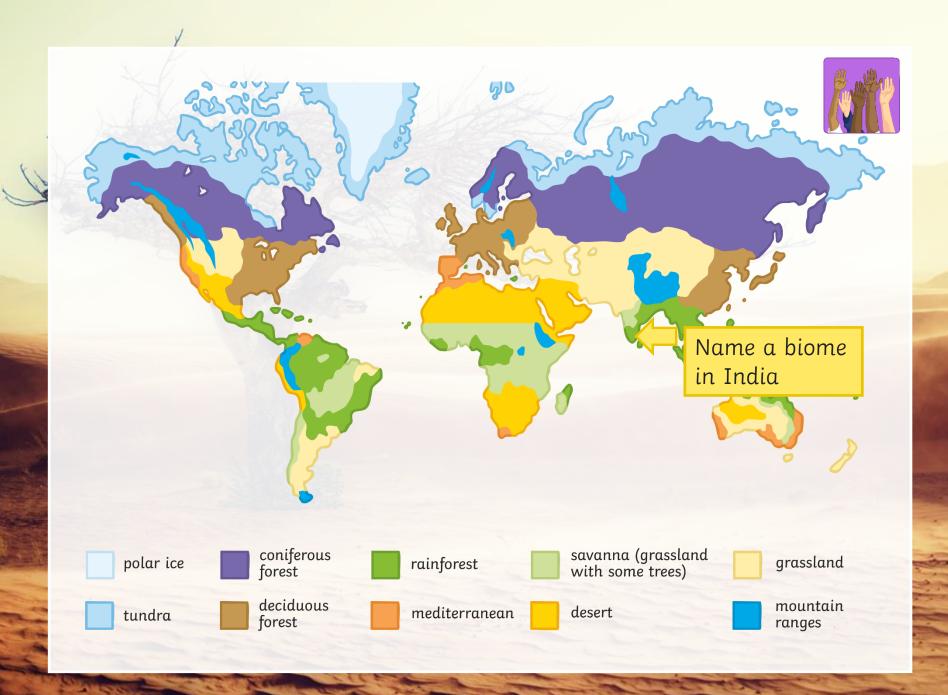


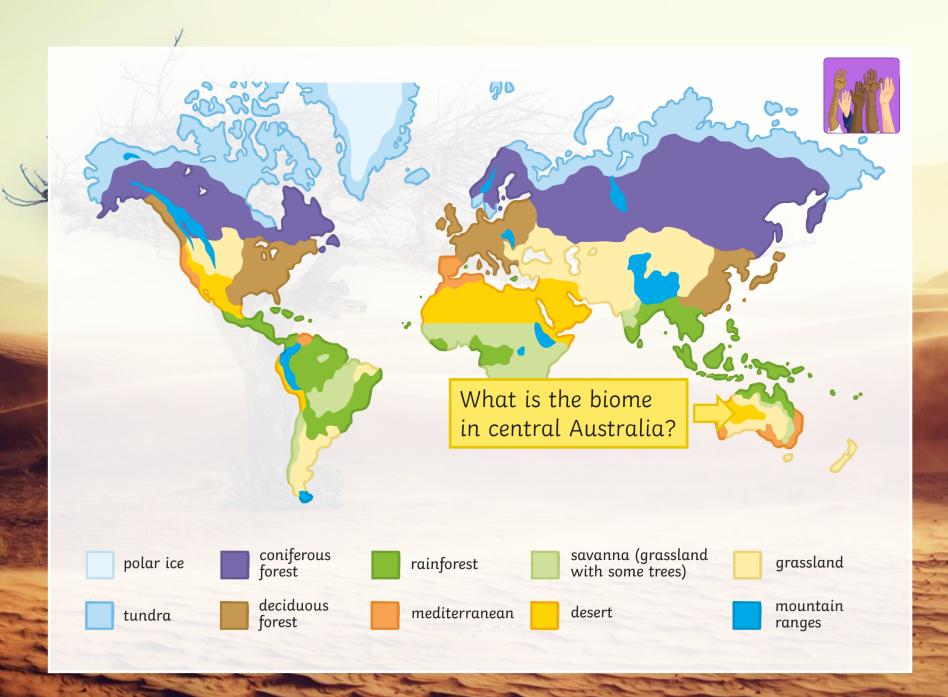
Use an atlas to help you answer these questions. What is the biome in...

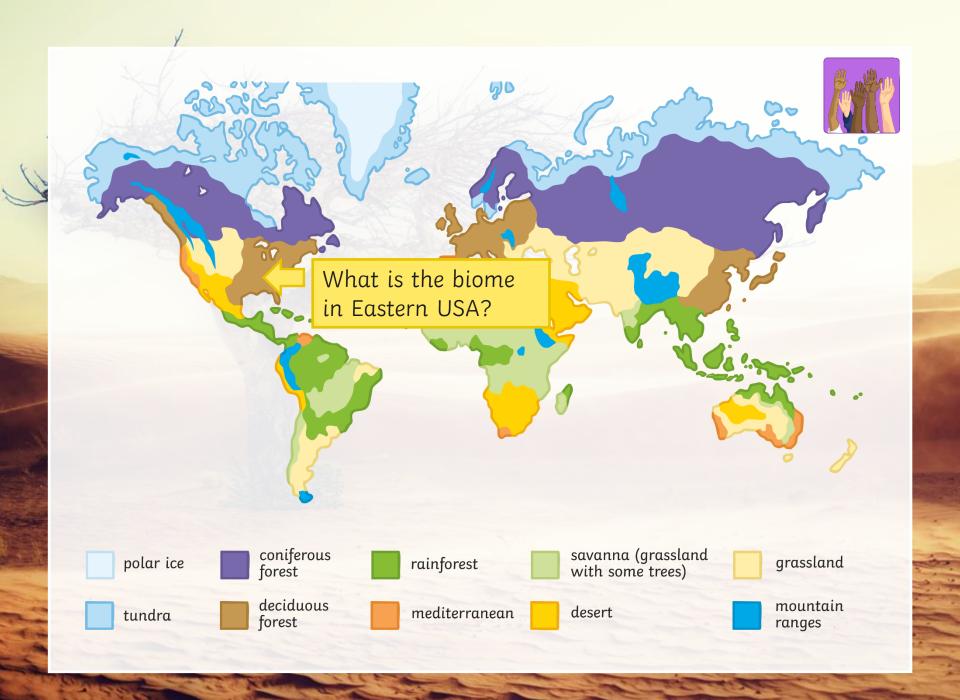


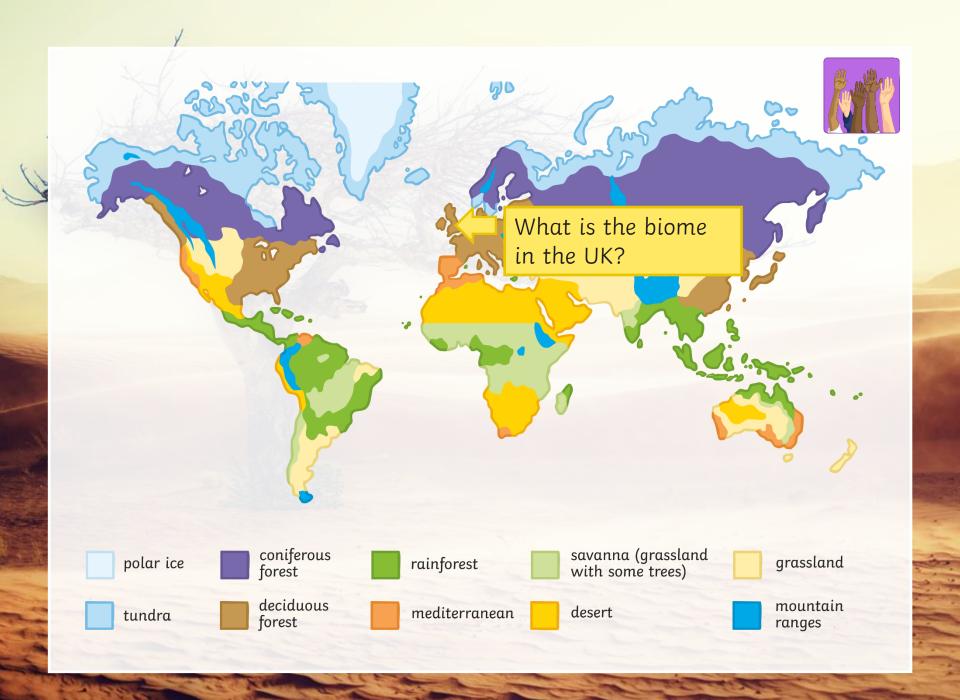








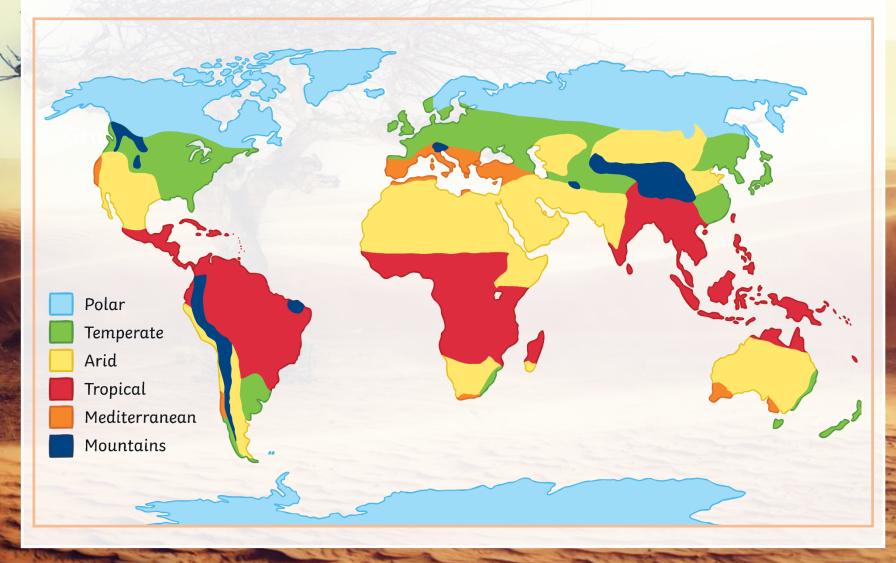


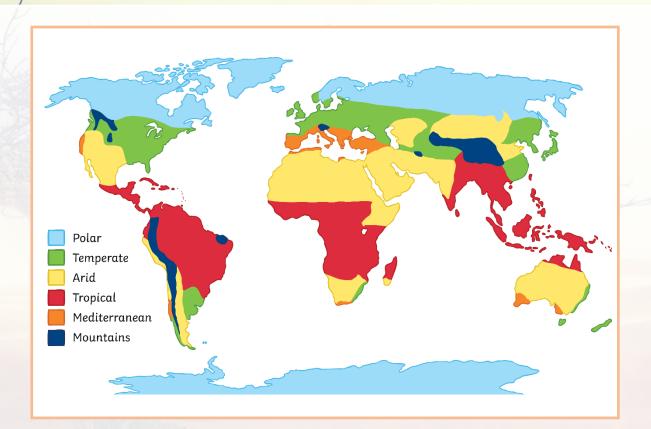


Types of Climate Zone

Biome D	escription	Example
Polar	Very cold and dry all year round	Antarctica
Temperate	Cold winters and mild summers	UK
Arid	Dry and hot all year round	Sahara Desert
Tropical	Hot and wet all year round	Brazil
Mediterranean	Dry, hot summers and mild winters	Spain
Mountain	Very cold, sometimes wet, all year	Himalayas

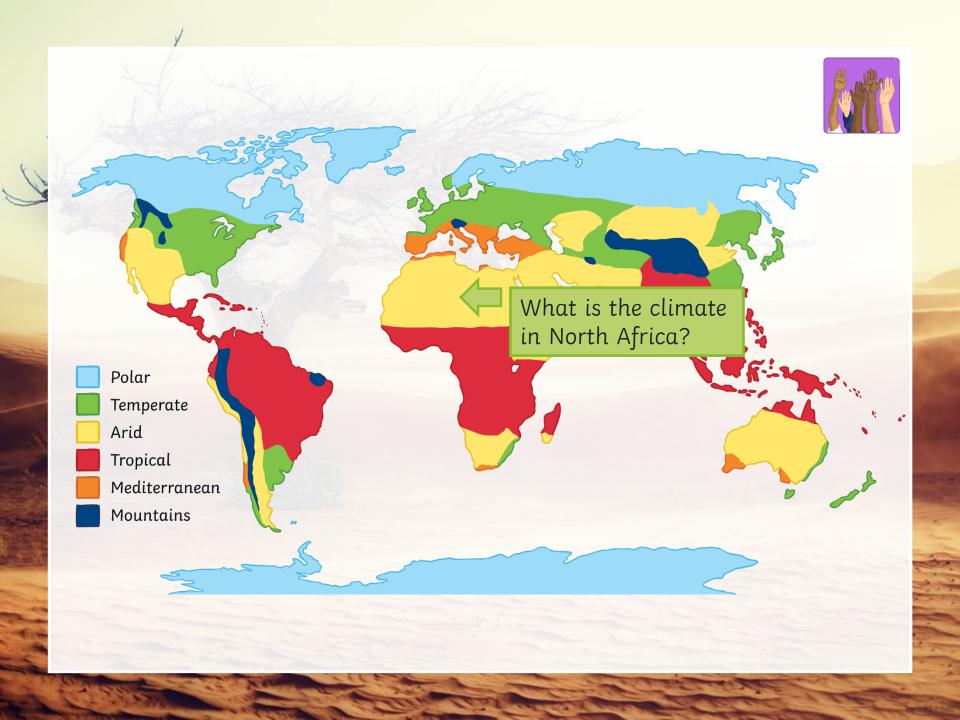
Climate Zone Locations

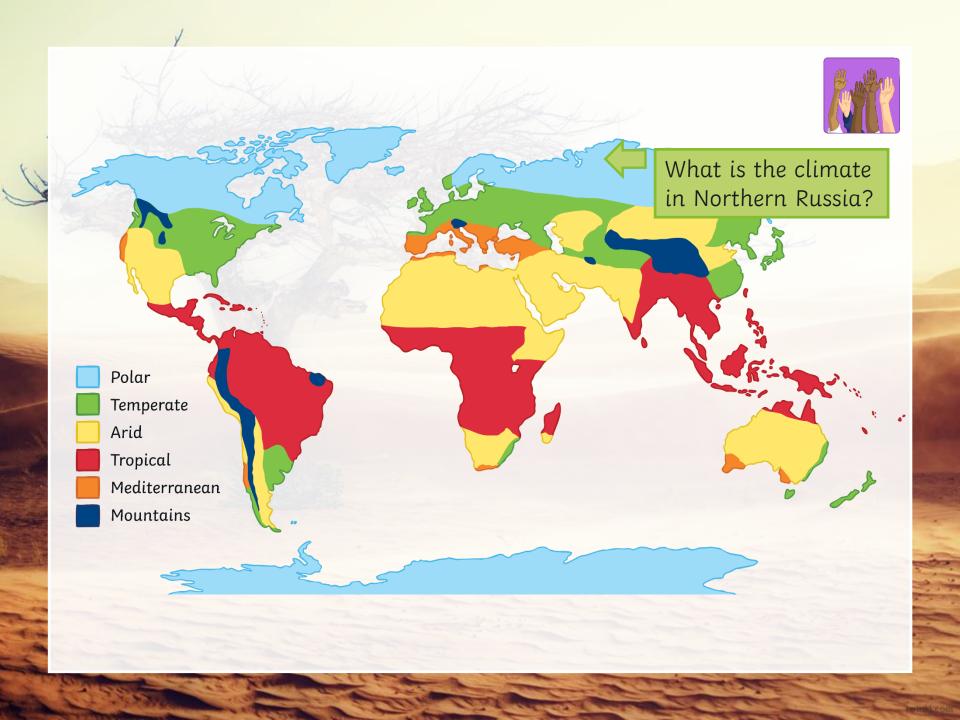


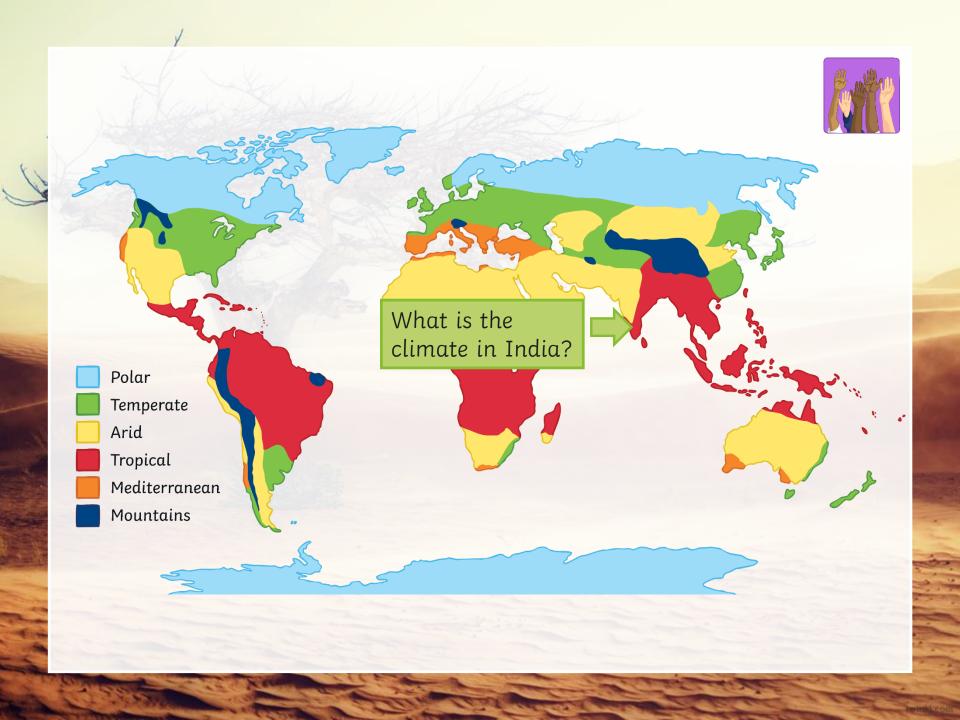


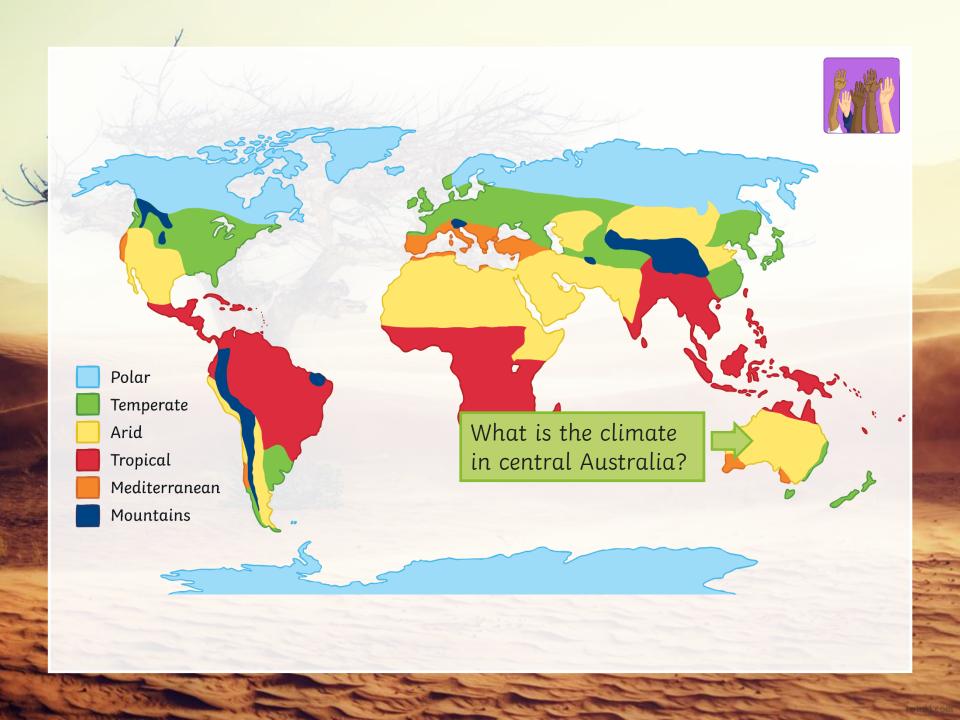
Use an atlas to help you answer these questions. What is the climate in...



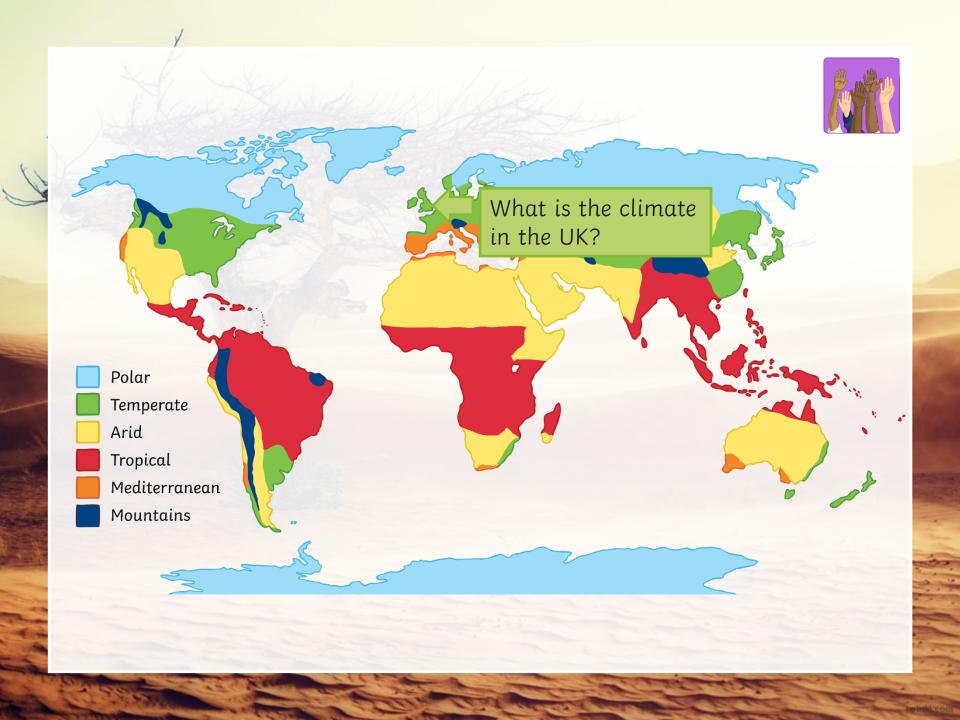












Report It!

Imagine you are on holiday **anywhere** in the world!

Write a postcard, email or letter describing the climate and the landscape. You should include a description of the type of weather you are experiencing. You should describe the types of plants and animals you can see there.



