

BIOMES KNOWLEDGE ORGANISER -

Overview

-Biomes are areas of our planet in which there are similar <u>climates</u>, <u>landscapes</u> and <u>living things</u> (animals and plants).

-There are many different types of biomes, including rainforests, deserts, polar deserts, temperate forests and savannahs.

-The things that live within each biome depends on how warm or cold it is, how wet or dry it is, and how fertile the soil is.

-Both plants and animals within biomes depend upon one another to stay alive - plants are food for many animals, and animals help to spread pollen and seeds for plant reproduction.



A map showing the different types of biomes across the world.

Where do different biomes occur?

High Temperature

Land Biomes		
Rainforests		Tropical rainforests are <u>hot a</u> They so named because they <u>Tropics</u> of Cancer and Capri <u>half of the plants and an</u>
Deserts	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Deserts are <u>extremely hot a</u> Only <u>few plants</u> grow here, e the soil is too shallow and re here often come out <u>after</u>
Savannahs		Savannahs are <u>hot all year of season</u> and a short (but son season. <u>Grasses, shrubs and</u> here, but there is an <u>abur</u>
Temperate Forests		Temperate means <u>'in moder</u> and so these forests are in p hot, cold, dry or wet. There a <u>spring, summer, autumn and</u> many deciduous trees, which winter. The UK contain
Steppe		Steppes are grassland hal receive <u>less rain than forests</u> Often, these areas are far sheltered from rains
Tundra		In tundra regions, there is <u>ver</u> the temperatures are freezin summers are short. Part of round, however in summer

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Aquatic Biomes		
Marine		The marine biome includ and so it is the largest bi 70% of the world's surfac include shallow and dee
Freshwater		Freshwater biomes have less s They include ponds, lakes wetlands. Freshwater system world. A vast array of wildlift some species of fish, reptiles
Coral Reef		Coral looks like rocks, but of organisms called polyps. The water which receive lots of s few corals reefs (compared biomes), 25% of all marine sp

On land, most plant and animal species are found in the rainforest biome. The word tundra comes from the Finnish word 'tunturia' which means 'treeless land.' Many of the trees in the temperate deciduous forest contain sap which keeps their roots from freezing during winter.

EMPERATE FOREST

TAIGA

RAINFOREST

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High Rainfall

A grassy biome may be called 'grassland', 'steppe', or 'savanna' depending upon the temperature. Areas of high altitude (e.g. mountains) have a different kind of biome called 'montane.'

Low Temperature Coral F Biomes Key Facts

ant reproduction. acr

Answers to the Important Questions

DESERT

Rainfall

Low

SAVANNAH

GRASSLAND

STEPPE

TUNDRA

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-Biomes are large areas of Earth that have similar climates, landscapes and living things. -For example, a rainforest biome is characterised by having a warm, wet climate, and lots of high trees (living things).

What causes biomes?

What are biomes?

The type of biome that occurs somewhere is generally influenced by three different factors:
The temperature of the place;
How much rainfall there is;
The landscape (e.g. altitude, soil type, etc.)

How do plants and animals live in their biomes? -The plants and animals of each biome have traits that help them to survive in their biome. Plants and animals that live in smaller areas of a biome depend on each other to survive. These smaller areas are called ecosystems. Each biome has many ecosystems.

What biome is in the UK?

The main biome for the UK is a temperate forest. The UK's temperate climate is the predominant causes of this. The climate is not too hot or cold and it is not too dry or wet. There are some local variations.



and wet all year around. y generally lay <u>within the</u> ricorn. They are home to <u>nimals</u> on the planet.

and dry all year around. e.g. cacti/ shrubs, because rocky. Animals who live dusk, when it is cooler.

<u>around</u>, with a <u>long dry</u> ometimes severe) rainy <u>d occasional trees</u> grow undance of animal life.

eration' (not to extremes) places that are not too are four distinct seasons: ad winter. There are often th lose their leaves in the ns temperate forest.

abitats are places that as but more than deserts. ar from oceans, or are as by mountains.

ery little rain or snow, and ng – winters are long and of the soil is frozen yearr some mosses can grow.

des the saltwater oceans, biome on Earth (approx. ace). Marine biomes may ep oceans and estuaries.

salt than marine biomes. es, streams, rivers and ns are found all over the ife live in freshwater, e.g. es, mammals and birds.

are actually tiny little ey form in shallow, clear sun. Although there are ad to the other aquatic species live in coral reefs.

Key Vocabulary

Biome

Region

Rainforest

Savannah

Tundra

Forest

Grassland

Desert

Polar Desert

Climate

Landscape

Plants

Fertile

Animals

Moderation

Although daytime temperatures in desert biomes are normally hot, they can get extremely cold at night.