

KS2.CB.T2	Area of study: Biomes – rainforest study  Unit aims / outcome: To understand that there are different biomes across the world with different environments and climates. To understand the rainforest biome and the human impact on this.	
Geographical concepts to organise knowledge:  <b>Location</b> – To know the location of biomes around the world linked to the equator and tropics  <b>Place</b> – to know the climate and environment of biomes  <b>Physical and Human features and processes</b> – to know the physical and human elements of rainforests.  <b>Geographical skills, fieldwork and observations</b> – use maps to locate biomes and atlases to recognise patterns between the equator and tropics and the biomes situated within them		
Key strands of learning:  <b>environments</b>  <b>Land use</b>  <b>Physical processes</b>  <b>Impact</b>  <b>Sustainability</b>		
Learning in Reception:	Tier 2  <b>New</b>  Environment  Temperature  weather  <u><b>Review</b></u>	Tier 3  <b>New</b>  biomes  climate  biodiverse  Sustainability  <u><b>Review</b></u>  Equator  Tropic of Cancer  Tropic of Capricorn
NC objective:	Vocabulary and crucial knowledge:	
Human and physical geography describe and understand	<b>Context of Study:</b>  This unit on biomes, with a focus on the Amazon Rainforest, builds on the children knowledge on continents (KS1.CA.T2) and their comparison study between two places: Stoke-on-Trent and Rio De Janeiro (KS1.CA.T3). The children already know that Brazil is in South America and that the Amazon	

key aspects of: physical geography, including: climate zones, biomes and vegetation belts, rivers.

Rainforest is in South America. The children are already familiar with the climate of the rainforest and also that the Amazon river is one of the largest rivers in the world. The children have an understanding of the significance of the rainforest and the Amazon River having learnt about the water cycle (KS2.CA.T2).

Understanding land use, both physical and human plays a key part of the children's understanding and exploring ways that humans impact nature allows the children to think critically about choices we make and the sustainability of these choices. (KS2.CA.T1).

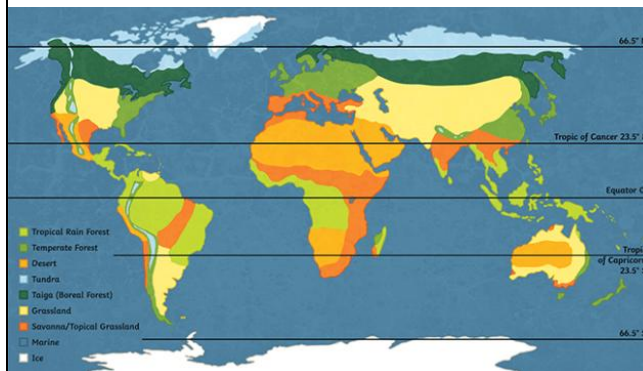
### Crucial Knowledge

Know that a biome (bio meaning life) is a large natural area of the world where plants and animals live

Know that different biomes have different environments and climates

Know that there are different types of biomes, including rainforests, deserts, grasslands, tundra and savannah.

Know what the climates and environments are like within these biomes



Know that the Equator is an imaginary line around the middle of the Earth where it is hottest.

Know that the Tropic of Cancer and the Tropic of Capricorn mark areas of the world that are warm all year round.

Know that tropical rainforests are usually found near the Equator, between the two tropics.

Know how to use atlases to locate different biomes across the globe

Know that the Amazon Rainforest is the largest tropical rainforest in the world.

Know that the Amazon Rainforest is located in South America.

Know that the Amazon Rainforest spreads across several countries, including Brazil, Peru and Colombia.

Know that the Amazon lies close to the Equator, meaning it has a hotter climate

Know that the Amazon Rainforest is a tropical rainforest biome.

Know that tropical rainforests are hot, wet and humid all year round. The rainforest has high temperatures all year round with frequent rainfall.

Know that heavy rainfall helps plants grow quickly and creates a very green environment.

Know that the Amazon Rainforest is home to many different plants and animals, making it very biodiverse (bio meaning life).

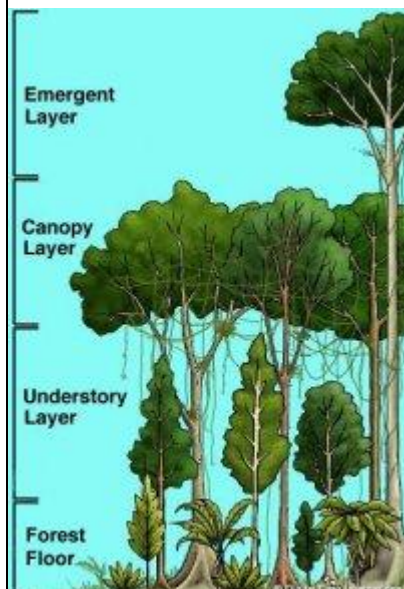
Know that the Amazon Rainforest has layers, each with different plants and animals.

Know that the emergent layer is the highest layer where the tallest trees grow.

Know that the canopy is a thick layer of treetops where many animals live and where most sunlight is captured.

Know that the understory is a darker layer with smaller trees and plants.

Know that the forest floor is the lowest layer, where very little sunlight reaches and plants decay quickly.



Know that the Amazon River is found in the rainforest and is one of the longest rivers in the world.

Know that the river flows through the Amazon Rainforest and supports plants, animals and people.

Know that rivers are important for transport, food and water in rainforest regions.

Know that deforestation means cutting down large areas of forest.

Know that parts of the Amazon Rainforest are being cut down for farming, roads and buildings.

Know that deforestation causes habitats to be lost and affects animals and plants.

Know that trees are often replaced with other plantations like palm oil.

Know that changes to the Amazon Rainforest can also affect the Earth's climate.

To understand the human impact of this and consider the sustainability aspects of cutting down parts of the rainforest.