

St Paul's Primary School, Newcastle. Glorifying Almighty God, and serving our community.

Investigating places		Investigating patterns	To Communicate Geographically
Class: 5/6		Title: Ocean Currents Biomes: Marine and Freshwater	
Topic summary: An ocean current is a continuous movement of ocean water from one		e place to another. Ocean currents are created by wind, water temperature, salt content and the gravity of the moon. The currents are called gyres and can flow	
for thousands of miles travelling clockwise in the northern			
hemisphere and anticlockwise in the southern hemisphere. Ocean currents affect weather patterns around the world: they transport warm water to			
colder areas and cold water to warmer ones.			
Biomes are a way to categorise the Earth's surface. These categories are based on climate patterns, soil types and the animals and plants that inhabit an area. Every part of the Earth's surface is a part of one or more biomes.			
The marine biome is the biggest biome in the world. It covers about 70% of the Earth. Marine regions are saline and contain millions of species of plants and animals. The amount of light in the marine biome gives it three zones.			
In the treshwater blome is an ecosystem made up of any body of these water, such as lakes, ponds, streams and rivers. These cover approximately 20% of the Earth's surface and are in various locations spread out all over the world. Most freshwater blome is an ecosystem made up of any body of the surface and are in various locations spread out all over the world. Most freshwater blome is an ecosystem made up of any body of the surface and are in various locations spread out all over the world. Most freshwater blome is an ecosystem made up of any body of the surface and are in various locations spread out all over the world. Most freshwater blome is an ecosystem made up of any body of the surface and are in various locations spread out all over the world.			
biomes consist of moving water and contain many types of fish.		Unit of work and points	
Geography Objectives		Onit of work end points	
Collect and analyse statistics and other information in order to draw clear		Ucean currents:	
conclusions about locations.		 To know what creates an ocean current, identifying and labelling on a map the main ocean currents of the world 	
• Name and locate some of the countries and clues of the world and then		 Explain now ocean currents anect the world's climate Explain the term (electic pollution) and how this relates to eccan surrants 	
key tonographical features and land-use natterns: and understand how some of		 Explain the term plastic pollution and now this relates to ocean currents Describe what is known as the (Creat Deside Carbage Detak) and how this is affecting over planet. 	
these aspects have changed over time		 Describe what is known as the Great Pacific Garbage Patch and now this is effecting our planet To give some examples of areas also describing the retation of areas in the parthern and southern homisphere 	
Name and locate the countries of North and South America and identify their		 To give some examples of gyres, also describing the rotation of gyres in the northern and southern nemisphere 	
main physical and human characteristics.			
Understand some of the reasons for geographical similarities and differences		Investigate now metting polar ice caps may lead to changes in ocean currents.	
between countries.		To know what a biome is (recan from Spring)	
 Describe geographical diversity across the world. 		 To name the main biomes (recap from Spring) 	
Describe and understand key aspects of:		To name the main piones (recap from Spring)	
• physical geography, including: climate zones, biomes and vegetation belts, rivers,		 To describe the difference between a terrestrial and aquatic biome (recan from Spring) 	
mountains, volcanoes and earthquakes and the water cycle.		 To be under the difference between a tenestrial and aquatic bioline (recap from spring) To know which biomes are in South America (recap from Spring) 	
Key vocabulary		Compare and contract marine and frashwater biomes	
Continuous	Happening all the time without a break	Marine Biomes:	
Gyres	Circular movements	 Locate and label the marine biome on a map 	
Pollution	A poisonous or dirty solution	• To know and label the 3 vertical zones of the ocean	
Garbage	American words for rubbish	• To know which plants and animals live in each zone and expla	ain why they live there
Vertical	With the top directly above the bottom	To explain how photosynthesis and marine plants reduce the	severity of climate change.
Saline	Containing salt	To discuss the impact phytoplankton has on the marine biom	e
Detected	Found	To compare and contrast views to why some see coral reefs a	as part of the marine biome but some see them as a separate biome
Photosynthesis	The way that green plants make their food using	Freshwater Biome:	
	sunlight	 Locate and label the freshwater biome on a map 	
Ecosystem	All the conditions, plants and animals that exist in a	 To describe what a freshwater ecosystem is 	
	particular area	 To know what form freshwater is in (E.g. as ice or in an aquife 	er)
Aquifer	An underground area of rock that absorbs and holds	 To know and describe the 3 subdivisions of a freshwater bior 	ne (lakes and ponds, streams and rivers, and wetlands)
	water	 To know what plants and animals live in a freshwater biome/ 	subdivisions
Habitats	The places where plants and animals live	 Organise information about how human processes (E.g. wate the freshwater biome and the babitats within it 	er withdrawal, pollution, creation of dams and water-diversion systems) are damaging
		Deeper Learning:	
		Relate your knowledge of biomes to your knowledge of light in the second s	human processes. Draw conclusions as to why humans behave as they do in
		response to the conditions within a biome.	