		r	ୁର୍ଘ୍ Beckfoot	Subject: Geog	graphy	/ Topic:The L	iving World		Year Group: 10	enjoy lean succeed	
A. Ecosystems exist at a range of scales and involve the interaction between biotic and abiotic components.						Effetgent Layer 12011 (0011)			E. Cold environments (polar and tundra) have a range of distinctive characteristics.		
1				Canopy 95ft (29m)				Polar and tundra environments	The physical characteristics of a cold environment.		
webs.			Understorey 55ft (17m)				Relationships in a cold environment	The interdependence of climate, permafrost, soils, plants, animals			
	ecosystems and natural global ecosystems. Biomes Biomes			TYPE TIY				ecosystem Adaptation in cold	and people. How plants and animals adapt to the		
3	3 An example of a illustrate the co			of a small scale UK ecosystem to concept		th 15ft (5m)	mic and environmental impacts.		environments	physical conditions.	
	Epping forest	producers, consumers, decomposers, food chain, food web and		,	1	Tropical Rainforest- named example	The Amazon rainforest, Brazil				
Rainfall BIOMASS Plant UTTER Plant Uptake Plants			2	Cause of deforestation	economic development, soil erosion, contribution to climate change.		F. Development of cold environments creates opportunities and challenges.				
			3	Impacts of deforestation	economic development, soil erosion,	1	Named example	Alaska USA			
Soil Soil				Soil Decay	Contribution to climate change.			2	Opportunities in Alaska	Mineral extraction, energy, fishing and tourism	
B. Tropical rainforest ecosystems have a range of distinctive				Detrivores	D. Tropical rainforests need to be managed to be sustainable.			3	Challenges in Alaska	Extreme temperature, inaccessibility, provision of buildings and infrastructure.	
ch 1	characteristics. 1 Rainfall, temperature, The physical characteristics of a		1	Value of tropical rainforests to	Climate regulator, medicine, wood, cultural heritage, habitat, research,	G. Co	G. Cold environments are at risk from economic development.				
	structure of a tropic rainforest	-				eople and the nvironment.	precious minerals.	1	Wilderness areas	The value of cold environments as wilderness areas and why these	
2	Relationships betwe biotic and abiotic		The interdepend water, soils, plar		1 I	Strategies to manage tropical	Selective logging and replanting, conservation and education,			fragile environments should be protected.	
	components of the rainforest	people.			rainforests	ecotourism and international agreements about the use of	2	cold	Balancing the needs of economic development and conservation in cold environments – use of technology, role of		
3	Adaptations		How plants and a the physical con	animals adapt to ditions.			tropical hardwoods, debt reduction.			governments, international agreements and conservation groups	

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1) Consumer	Creature that eats animals and/or plant matter.	9) Biodiversity	The variety of life in the world or a particular habitat	17) Soil erosion	Removal of topsoil faster than it can be replaced, due to natural (water and wind action), animal, and human activity. Topsoil is the top layer of soil and is the most fertile because it contains the most organic, nutrient-rich materials.	
2) Decomposer	An organism such as a bacterium or fungus, that breaks down dead	10)	Farming to sell produce for a profit to retailers or	-		
2) Ecosystem	tissue, which is then recycled to the environment.	Commercial farming	food processing companies.	18) Subsistence farming	A type of agriculture producing food and materials for the benefit only of the farmer and his family. Actions and forms of progress that meet the needs of the present without reducing the ability of future generations to meet their	
3) Ecosystem	A community of plants and animals that interact with each other and their physical environment.	11) Debt reduction	Countries are relieved of some of their debt in return for protecting their rainforests.	– 19) Sustainabilit		
4) Food chain	The connections between different organisms (plants and			20) Appropriate technology	needs. (Also called Intermediate technology) Technology that is suited to the needs, skills, knowledge and wealth of local people in the environment in which they live. It usually combines simple ideas with cheap and readily available materials, especially for use in poorer countries, and is environmentally friendly.	
	animals) that rely on one another as their source of food.	12) Deforestati on	The chopping down and removal of trees to clear an area of forest.			
5) Food web	A complex hierarchy of plants and animals relying on each other for					
6) Nutrient	food. A set of processes whereby	13) Ecotourism	Responsible travel to natural areas that conserves the environment, sustains the wellbeing of the	21) Biodiversity	The variety of life in the world or a particular habitat	
cycling	organisms extract minerals necessary for growth from soil or water, before passing them on		local people, and may involve education. It is usually carried out in small groups and has minimal impact on the local ecosystem.	22) Fragile environment	An environment that is both easily disturbed and difficult to restore if disturbed. Plant communities in fragile areas have evolved in highly specialized ways to deal with challenging conditions. As a result, they	
	through the food chain - and ultimately back to the soil and	14) Logging	The business of cutting down trees and transporting the logs to sawmills.		cannot tolerate environmental changes.	
7) Global	water. Very large ecological areas on the			23) Polar	The regions of Earth surrounding the North and South Poles. These regions are dominated by Earth's polar ice caps, the northern resting on the Arctic Ocean and the southern on the continent of Antarctica.	
ecosystem	earth's surface (or biomes), with fauna and flora (animals and	· ·	The removal of solid mineral resources from the earth. These resources include ores, which contain			
	plants) adapting to their environment. Examples include tropical rainforest and hot desert.		commercially valuable amounts of metals, such as iron and aluminum; precious stones, such as diamonds; building stones, such as granite; and solid fuels, such as coal and oil shale.	24) Tundra	The flat, treeless Arctic regions of Europe, Asia and North America, where the ground is permanently frozen. Lichen, moss, grasses and dwarf shrubs can grow here.	
8) Producer	An organism or plant that is able to absorb energy from the sun through photosynthesis.	16) Selective logging	The cutting out of trees which are mature or inferior, to encourage the growth of the remaining trees in a forest or wood.	25) Wilderness area	The flat, treeless Arctic regions of Europe, Asia and North America, where the ground is permanently frozen. Lichen, moss, grasses and dwarf shrubs can grow here.	