Geography Revision:	What is an ecosystem?	List the biotic & abiotic parts of an ecosystem	_	ow the 4 layers of the orest
Rainforests	What is a biome?	APEX-How are the biotic parts of ecosystems dependent on the abiotic parts?		
What are the goods and services found	De-deforestation  Brazilian Annaeon rainforest  Annual deformatation  Land protected	Draw a diagram to show the nutrient	Explain how plants and animals have adapted to the rainforest	
in Rainforests?  Goods Services	30 60 25 50	cycle in rainforests	Animals	Plants
	What does this graph tell you about deforestation?			
Which groups of people are to blame		cts of deforestation?	What can be done to slow down the rate of deforestation?	
for deforestation?	Social Eco	onomic Environmental	APEX-Include local, nation	nal & international

Abiotic Relating to non living things  Formation Relating to non living things  Formation Relating to relating the same than the sun thing the same than the sun the living of meant the sun the living of meant the sun the living of meant the sun things of the earth and so when deforested it and less of day the earth and so when deforested it and less of day the earth and so when deforested it and less of day the earth and so when deforested it and less of day the earth and so when deforested it and less of day the earth and so when deforested it and less of day the earth and so when deforested it and less of day the earth and so when deforested it and less of day the earth and so when deforested it and less of day the earth and so when deforested it and less of day the earth and so when deforested it and less of day the earth and so when deforested it	and left unprotected from heavy rain ads to landslides and flooding utrients are washed away creasing nutrients in the soil vers silt up  ass of biodiversity - 137 species a by ass of indigenous tribes (90 since 190) itial people moving to towns and titles and have drugs and alcohol sues. Loss of indigenous knowledge onflicts between developers and digenous people  aged to be sustainable		
Abiotic Relating to non living things  Biotic Relating to living things  Consumer Creature that wats herbivores and / or plant matter  Decomposer An organism that breaks down dead tissue which is then recycled to the environment  Ecosystem A community of plants and animals that interact with each other and the physical environment  Food chain The connections between different organisms that rely on one another as their food source  Food web A complex hierarchy of plants and animals relying on each other for food  Nutrient cycling A set of processes whereby organisms extract minerals necessary for growth from soil and water before passing them on though the food chain  Global Carge biomes with flora and fauna adapting to their environment  An organism or plant that is able to absorb energy from the sun through photosynthesis  A photosynthesis  A verage temperature 27PC  More than 2000 mm rain per year  Wete season (December to May)  Infertile soils  Wete season (December to May)  Infertile soils  A verage temperature 27PC  More than 2000 mm rain per year  Wete season (December to May)  Infertile soils  A layers of vegetation  Trees lose leaves all year  Contribution to climate change  Trees cut down change the water cycle and make it drier and warmer  A layers of vegetation  Trees lose leaves all year  Tall and straight to reach the sun  Buttress roots to support the tall trees  Liadsources  A community of plants and animals that interact with each other and the physical environment and so when deforested there is ore carbon didied in the air and less only an earth and so when deforested there is ore carbon didied in the air and less only an earth and so ownen deforested there is ore carbon didied in the air and less only an earth and less only an earth and so only an earth and less only and animals relying on each other for dod  Nutrient cycling  A serge temperature 27PC  More than 2008 56.9 billion from cattle  Rubreury from soil and warmer on the lattres that be lest pyear of the lattres of the sun of the lar	ads to landslides and flooding utrients are washed away screasing nutrients in the soil wers silt up ass of biodiversity - 137 species a by second side of the soil was of indigenous tribes (90 since 190) it is people moving to towns and titles and have drugs and alcohol sues. Loss of indigenous knowledge onflicts between developers and digenous people aged to be sustainable		
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Thing may the area to grade to each to an			
ECOSYSTEM Key Characteristics - Anteaters - long tongues; good smell and hearing; sharp claws to open ant hills the well being of local people and may invo	Responsible travel to natural areas that conserve the environment, sustains the well being of local people and may involve education		
Tropical Rainforests  • Along equator (Asia, Africa / South America) • G% earth's surface • 25°C – 30°C and over 250mm rain per year • Small changes to biotic and abiotic factors can have serious knock on effects • Along equator (Asia, Africa / South America) • Harpy eagle – short pointy wings to manoeuvre  • INTERDEOENDENCE OF CLIMATE, WATER, SOILS, PLANTS, ANIMALS AND PEOPLE • Small changes to biotic and abiotic factors can have serious knock on effects	The cutting down of trees which are mature or inferior to encourage the growth of the remaining trees		
	Actions and forms of progress that meets the needs of the present without reducing the ability of future generations to meet their own needs		
Short grasses     Thick litter layer. Rapidly breaks down due to climate     Wet and dry seasons     Warm humid climate means rapid plant growth	GOODS AND SERVICES		
Conferous Forest  - Bown (Scandinavia / Canada)  - Sues RELATED TO BIODIVERSITY  - Cone bearing evergreen  - No suplicit for part of the year  - No suplicit for part of the year	Water; Medicines (1/4 of drugs use nutrient cycling; Protection from soil		
Deciduous forests	MANAGEMENT STRATEGIES		
4 distinct seasons     Lose leaves in the winter to cope with the cold  KI : Deforestation has economic and environmental impacts  STRATEGY  KEY FACTS	KEY FACTS		
Tundra - Above 60°N (Arctic Circle) Key term Definition and facts Selective logging - Only fell fully grown trees on 30	1 30 – 40 year cycle		
Less than 10°C and less than 500mm per year rain     Cold, icy and dry means 2 month growing season     Commercial farming     Cattle and crops. 80% of destruction as ruins soil and nutrients     Replanting     Replanting     Replanting     Neglanting     Commercial farming     Cattle and crops. 80% of destruction as ruins soil and nutrients     Forest Stewardship Council — m	om primary forest; grow in - mark sustainably sourced timber		
Mediterranean  30- 40°N and 5 on west coast of continents Drought resistant small trees and evergreen shrubs  Deforestation The chopping down and removal of trees to clear an area of forest Conservation  • Education of locals key • WWF (NGO) – education; train	locals key - education; train conservation workers; provide		
Tropical Grasslands  Between equator and tropics  Between equator and tropics  Cogging  The business or cutting down trees and transporting the logs to sawmills. Selective logging and clear felling. Teak and Mahogany worth the most	ed areas and set up nature reserves		
Mineral The removal of mineral resources from the earth. Gold, Bauxite, Oil • Small visitor numbers • Tropics (Sahara and Australia) extraction and gas. Pollutes rivers and air • Waste and litter disposed of pro			
Soil erosion  Removal of topsoil faster than it can be replaced due to natural, animal and human activity  International Interna	Agreement 2006 and 2011 –		
1 ropical rainforest ecosystems have a range of distinctive characteristics  Subsistence   A type of agriculture producing food and materials for the benefit   about use of   stamped with registration number   stamped with reg			
Key term Definition			
Biodiversity Ine way or line w	010 USA converted debt of \$13.5 the funds to protect the rainforest of LICs		