




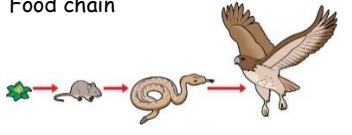
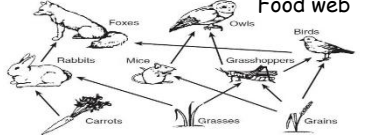








Ecosystems	EG small scale e/s	<h1>Living world</h1>						
	Components	Producer 	Consumer 	Decomposer 				
	Parts in nutrient cycle	Abiotic 			Biotic 			
	Diagrams	Food chain 		Food web 		Nutrient cycle 		
	Distribution FROM equator	Tropical rainforest	Savanna	Desert	Mediterranean	Temperature Deciduous	Tundra	Polar
	Character-istics	Hot, wet	Grass lands	Hot, dry	Hot, dry summers, mild winters	Seasonal	Partially frozen ground	Very cold, dry

Rainforests	Character-istics	Temp: Hot- 27oC Constant all year	Rainfall: High >2000mm	Soil: Latosol Shallow, infertile	Structure: Emergents Upper canopy, Lower canopy, Shrub layer
	Plant adaptations	Drip tip leaves 	Buttress roots 	Thin smooth bark	Lianas 
	Animal adaptations	Flying squirrels Skin flaps	Jaguars Mottled dark fur	Sloth Claws/long arms/slow	Flying frog Webbed hands and feet
	Biodiversity	High		At risk due to deforestation > loss of habitat	

CS: Borneo	Causes	1 Commercial /subsistence Farming	2 Logging	3 Road building	4 Mineral extraction	5 Energy development	6 Settlement	7 Population growth
	Impacts	1 Economic development		2 Soil erosion		3 Climate change		

Management	Value	1 50% species Biodiversity	2 Carbon stores	3 28% oxygen	4 25% medicines	5 Resources Nuts/ rubber	6 Fresh water	7 Indigenous tribes	
	Sustainable management	1 Selective logging and replanting		2 Conservation and education		3 Ecotourism		4 International agreements. FSC	

Deserts	Character-istics	Temp: Very hot, cold over night	Rainfall: Little < 250mm	Soil: Sandy, infertile	Water is short supply, occasional flash flooding
	Plant adaptations	Succulents 	Needles 	Rapid life cycles	Long tap roots 
	Animal adaptations	Wide feet	Long eyelashes	Long large intestine	Nocturnal
	Biodiversity	Low		Why? Little rain so little vegetation to eat	

CS: Thar	Opportunities	1 Mineral extraction	2 Energy	3 Farming	4 Tourism
	Challenges	1 Extreme temperatures		2 Water supply	

Desert -ification	Causes	1 Climate change	2 Pop. growth	3 Removal of fuel wood	4 Over grazing	5 Over cultivation	6 Soil erosion
	Reducing risk	1 Water and soil management		2 Tree planting		3 Use of appropriate technology	

