Subject: Geography						
<u>Year: 10</u>						
Half term 1	Half term 2	Half term 3	Half term 4	Half term !		
Ecosystems Ecosystems exist at a range	<u>Natural Hazards</u>	<u>Cold Environments</u> Cold environments (polar	<u>Glacial landscapes</u> The UK has a range of	<u>River landscapes i</u> UK		
of scales and involve the interaction between biotic and abiotic components.	Natural hazards pose major risks to people and property.	and tundra) have a range of distinctive characteristics.	An overview of the location of major upland/lowland	The shape of river changes as rivers downstream.		
An example of a small scale UK ecosystem to illustrate the concept of interrelationships	Definition of a natural hazard.	The physical characteristics of a cold environment.	areas and river systems. Glacial landscapes in the UK	The long profile and changing cross profirier and its valley.		
within a natural system, an understanding of producers, consumers, decomposers, food	Types of natural hazard. Factors affecting hazard risk.	The interdependence of climate, permafrost, soils, plants, animals and people.	Ice was a powerful force in shaping the physical landscape of the UK.	Fluvial processes:		
chain, food web and nutrient cycling.	Tectonic Hazards	How plants and animals adapt to the physical	Maximum extent of ice cover across the UK during the last	 erosion – hydraction, abrasic attrition, solut 		
The balance between components. The impact on the ecosystem of changing one component.	Earthquakes and volcanic eruptions are the result of physical processes. Plate tectonics theory.	Issues related to biodiversity.	ice age. Glacial processes:	 vertical and la erosion transportation, saltation 		
An overview of the distribution and characteristics of large scale natural global ecosystems.	Global distribution of earthquakes and volcanic eruptions and their relationship to plate margins.	Development of cold environments creates opportunities and challenges.	 freeze-thaw weathering erosion – abrasion and plucking movement and transportation 	suspension an solution • deposition – w rivers deposit sediment.		
Tropical rainforest ecosystems have a range of distinctive characteristics.	Physical processes taking place at different types of plate margin (constructive, destructive and	A case study of a cold environment to illustrate: • Development	 transportation – rotational slip and bulldozing deposition – why glaciers deposit 	Distinctive fluvial landforms result f different physical processes.		
The physical characteristics of a tropical rainforest. The interdependence of	conservative) that lead to earthquakes and volcanic activity.	opportunities in cold environments: mineral extraction, energy, fishing and tourism	sediment (till and outwash). Distinctive glacial	Characteristics and formation of landfor resulting from erosid		
climate, water, soils, plants, animals and people.	The effects of, and responses to, a tectonic	 challenges of developing cold environments: 	landforms result from different physical processes.	interlocking spurs, v and gorges.		
How plants and animals adapt to the physical conditions.	hazard vary between areas of contrasting levels of wealth.	extreme temperature, inaccessibility, provision of buildings	Characteristics and formation of landforms	Characteristics and formation of landfor resulting from erosio		
Issues related to biodiversity.	Primary and secondary effects of a tectonic hazard.	and infrastructure.	resulting from erosion – corries, arêtes, pyramidal peaks, truncated spurs,	deposition – meando ox-bow lakes.		
Deforestation has economic and environmental impacts.		risk from economic development.		Characteristics and formation of landfor		

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Half term 6

Weather Hazards Global atmospheric circulation helps to determine patterns of weather and climate.

General atmospheric circulation model: pressure belts and surface winds.

Tropical storms (hurricanes, cyclones, typhoons) develop as a result of particular physical conditions.

Global distribution of tropical storms (hurricanes, cyclones, typhoons).

An understanding of the relationship between tropical storms and general atmospheric circulation.

Causes of tropical storms and the sequence of their formation and development.

The structure and features of a tropical storm.

How climate change might affect the distribution, frequency and intensity of tropical storms.

Tropical storms have significant effects on people and the environment.

			glacial troughs, ribbon lakes	resulting from dep
Changing rates of	Immediate and long-term	The value of cold	and hanging valleys.	levées, flood plains
deforestation.	responses to a tectonic	environments as wilderness		estuaries.
	hazard.	areas and why these fragile	Characteristics and	
A case study of a tropical		environments should be	formation of landforms	An example of a
rainforest to illustrate:	Use named examples to	protected.	resulting from transportation	in the UK to identi
	show how the effects and		and deposition – erratics,	major landforms o
causes of deforestation –	responses to a tectonic	Strategies used to balance	drumlins, types of moraine.	and deposition.
subsistence and	hazard vary between two	the needs of economic		
commercial farming,	areas of contrasting levels of	development and	An example of an upland	Different manag
logging, road building,	wealth.	conservation in cold	area in the UK affected by	strategies can be
mineral extraction,		environments – use of	glaciation to identify its	protect river lan
energy development,	Management can reduce	technology, role of	major landforms of erosion	from the effects
settlement, population	the effects of a tectonic	governments, international	and deposition.	flooding.
growth	hazard.	agreements and		
impacts of		conservation groups.	Glaciated upland	How physical and
deforestation – economic			areas provide	factors affect the f
development, soil	continue to live in areas at		opportunities for	precipitation, geol
erosion, contribution to	risk from a tectonic hazard.		different economic	and land use.
climate change.			activities, and	
	How monitoring, prediction,		management strategies	The use of hydrog
Tropical rainforests need to	protection and planning can		can be used to reduce	show the relations
be managed to be	reduce the risks from a		land use conflicts.	between precipitat
sustainable.	tectonic hazard.			discharge.
			An overview of economic	
Value of tropical rainforests to			activities in glaciated upland	The costs and ben
people and the environment.			areas - tourism, farming,	following manager
Church a singly would be upper and the			forestry and quarrying.	strategies:
Strategies used to manage the				
rainforest sustainably –			Conflicts between different	hard engine
selective logging and			land uses, and between	dams and re
replanting, conservation and			development and	straightening
education, ecotourism and			conservation.	embankmen
international agreements				relief channe
about the use of tropical			An example of a glaciated	 soft enginee
hardwoods, debt reduction.			upland area in the UK used	flood warnin
			for tourism to show:	preparation,
			the attractions for	plain zoning
			the attractions for	trees and riv
			tourists	restoration.
			 social, economic and 	
			environmental	An example of a
			impacts of tourism	management sche
			 strategies used to 	UK to show:
			manage the impact of	
	T		tourism.	 why the sche
	11	and Ad	tourism. MITANA	required
		NNS IN	ΠΙΙΙΛΙΙΛ	the manager
				strategy

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human flood risk – logy, relief

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Primary and secondary effects of tropical storms.

Immediate and long-term responses to tropical storms.

Use a **named example** of a tropical storm to show its effects and responses.

How monitoring, prediction, protection and planning can reduce the effects of tropical storms.

The UK is affected by a number of weather hazards.

An overview of types of weather hazard experienced in the UK.

Extreme weather events in the UK have impacts on human activity.

An **example** of a recent extreme weather event in the UK to illustrate:

- causes
- social, economic and environmental impacts
- how management strategies can reduce risk.

Evidence that weather is becoming more extreme in the UK.

Climate change

was Climate change is the result of natural and t human factors, and has a range of effects.



Ludus Admirandus