AQA GCSE Geography Confidence Grid - Paper 1

Living with the physical environment

SECTION A - THE CHALLENGE OF NATURAL HAZARDS

Natural Hazards

Key idea	Specific content	RAG 1	RAG 2	RAG 3
	Definition of a natural hazard.			
Natural hazards pose major risks to people	Types of natural hazard.			
and property.	Factors affecting risk.			

Tectonic Hazards

Key idea	Specific content	RAG 1	RAG 2	RAG 3
	Plate tectonics theory.			
	Global distribution of earthquakes and			
Earthquakes and volcanic eruptions are the result of physical	volcanic eruptions and their relationship to plate margins.			
processes.	Physical processes taking place at different types of plate margin (constructive,			
	destructive and conservative) that lead to earthquakes and volcanic activity.			
	Primary and secondary effects of a tectonic hazard.			
The effects of, and responses to, a	Immediate and long-term responses to a tectonic hazard.			
tectonic hazard vary between areas of contrasting levels of wealth.	Use named examples to show how the effects and responses to a tectonic hazard vary between two areas of contrasting levels of wealth.			
	HIC example – Chile earthquake, 2010 LIC example – Nepal earthquake, 2015			
Management can	Reasons why people continue to live in areas at risk from a tectonic hazard.			
reduce the effects of a tectonic hazard.	How monitoring, prediction, protection and planning can reduce the risks from a tectonic hazard.			

Weather hazards

Key idea	Specific content	RAG 1	RAG 2	RAG 3
Global atmospheric	General atmospheric circulation model:			
circulation helps to	pressure belts and surface winds.			
determine patterns of				
weather and climate.				
Tropical storms	Global distribution of tropical storms			
(hurricanes, cyclones,	(hurricanes, cyclones and typhoons).			

typhoons) develop as a result of particular physical conditions.	An understanding of the relationship between tropical storms and general atmospheric circulation.		
priyologi congitions.	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.		
	Primary and secondary effects of tropical storms.		
	Immediate and long-term responses to tropical storms.		
Tropical storms have significant effects on	Use a named example of a tropical storm to show its effects and responses.		
people and the	Example – Typhoon Haiyan, Philippines		
environment.	- 2013		
	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. Examples – Beast from the East (extreme cold/snow), 2018 OR Somerset Levels (Floods), 2007. Evidence that weather is becoming more extreme in the UK.		

Climate Change

Key idea	Specific content	RAG 1	RAG 2	RAG 3
	Evidence for climate change from the beginning of the Quaternary period to the present day.			
Climate change is the result of natural and human factors, and has a range of effects.	Possible causes of climate change: Natural factors – orbital changes, volcanic activity and solar output Human factors – use of fossil fuels, agriculture and deforestation. Overview of climate change on people and			
	the environment.			

Managing climate	Managing climate change:	
change involves both	Mitigation – alternative energy	
mitigation (reducing	production, carbon capture, planting	
causes) and	trees, international agreements	
adaptation	Adaptation – change in agricultural	
(responding to	systems, managing water supply,	
change).	reducing risk from rising sea levels.	

SECTION B – THE LIVING WORLD

Ecosystems

Key idea	Specific content	RAG 1	RAG 2	RAG 3
	An example of a small-scale UK			
	ecosystem to illustrate the concept of			
	interrelationships within a natural system,			
	an understanding of producers,			
Ecosystems exist at a	consumers, decomposers, food chain, food			
range of scales and	web and nutrient cycling.			
involve the interaction	EXAMPLE – Epping Forest, London			
between biotic and	The balance between components. The			
abiotic components.	impact on the ecosystem of changing one			
	component.			
	An overview of the distribution and			
	characteristics of large scale natural global			
	ecosystems.			

Tropical rainforests

Key idea	Specific content	RAG 1	RAG 2	RAG 3
Tropical rainforest ecosystems have a range of distinctive characteristics.	The physical characteristics of a tropical rainforest.			
	The interdependence of climate, water, soils, plants, animals and people.			
	How plants and animals adapt to the physical conditions.			
	Issues related to biodiversity.			
	Changing rates of deforestation.			
	A case study of a tropical rainforest to illustrate:			
Deforestation has	CASE STUDY - Malaysia			
economic and	 Causes of deforestation – 			
environmental	subsistence and commercial			
impacts.	farming, logging, road building,			
	mineral extraction, energy development, settlement, population growth.			
	 Impacts of deforestation – economic development, soil erosion, 			
	contribution to climate change.			

	Value of tropical rainforests to people and the environment.		
Tropical rainforests need to be managed to be sustainable.	Strategies used to manage the rainforest sustainably – selective logging and replanting, conservation and education, ecotourism and international agreements about the use of tropical hardwoods, debt reduction.		

Hot deserts

Key idea	Specific content	RAG 1	RAG 2	RAG 3
Hot desert	The physical characteristics of a hot desert.			
ecosystems have a range of distinctive characteristics.	The interdependence of climate, water, soils, plants, animals and people.			
	How plants and animals adapt to the physical conditions. Issues related to biodiversity.			
Development of hot desert environments creates opportunities and challenges.	A case study of a hot desert to illustrate: CASE STUDY – Thar Desert Development opportunities in hot desert environments: mineral extraction, energy, farming, tourism Challenges of developing hot desert environments: extreme temperatures, water supply, inaccessibility.			
Areas on the fringe of hot deserts are at risk of desertification.	Causes of desertification – climate change, population growth, removal of fuel wood, overgrazing, overcultivation and soil erosion. Strategies used to reduce the risk of desertification – water and soil management, tree planting and use of appropriate technology.			

SECTION C - PHYSICAL LANDSCAPES IN THE UK

UK physical landscapes

Key idea	Specific content	RAG 1	RAG 2	RAG 3
The UK has a range of diverse landscapes.	An overview of the location of the major upland/lowland areas and river systems.			

Coastal landscapes in the UK

Key idea	Specific content	RAG 1	RAG 2	RAG 3
	Wave types and characteristics.			
The coast is shaped by a number of physical processes.	 Coastal processes: Weathering processes – mechanical, chemical Mass movement – sliding, slumping and rock falls Erosion – hydraulic action, abrasion and attrition Transportation – longshore drift Deposition – why sediment is deposited in coastal areas. 			
Distinctive coastal landforms are the result of rock type, structure and physical processes.	How geological structure and rock type influence coastal forms. Characteristics and formation of landforms resulting from erosion – headlands and bays, cliffs and wave cut platforms, caves, arches and stacks. Characteristics and formation of landforms resulting from deposition – beaches, sand dunes, spits and bars. An example of a section of coastline in the UK to identify its major landforms of erosion and deposition. EXAMPLE – Dorset coast			
Different management strategies can be used to protect coastlines from the effects of physical processes.	The costs and benefits of the following management strategies: • Hard engineering – sea walls, rock armour, gabions and groynes • Soft engineering – beach nourishment and reprofiling, dune regeneration • Managed retreat – coastal realignment. An example of a coastal management scheme in the UK to show: • The reasons for management • The management strategy • The resulting effects and conflicts. EXAMPLE – Lyme Regis			

River landscapes in the UK

Key idea	Specific content	RAG 1	RAG 2	RAG 3
	The long profile and changing cross profile of a river and its valley.			
The shape of river valleys changes as rivers flow downstream.	Fluvial processes: • Erosion – hydraulic action, abrasion, attrition, solution, vertical and lateral erosion			
	 Transportation – traction, saltation, suspension and solution 			

	 Deposition – why rivers deposit sediment. 	
Distinctive fluvial landforms result from different physical processes.	Characteristics and formation of landforms resulting from erosion – interlocking spurs, waterfalls and gorges. Characteristics and formation of landforms resulting from erosion and deposition – meanders and ox-bow lakes. Characteristics and formation of landforms resulting from deposition – levees, flood plains and estuaries. An example of a river valley in the UK to identify its major landforms of erosion and deposition. EXAMPLE – River Tees	
Different management strategies can be used to protect river landscapes from the effects of flooding.	How physical and human factors affect the flood risk – precipitation, geology, relief and land use. The use of hydrographs to show the relationship between precipitation and discharge. The costs and benefits of the following management strategies: • Hard engineering – dams and reservoirs, straightening, embankments, flood relief channels • Soft engineering – flood warnings and preparation, flood plain zoning, planting trees and river restoration. An example of a flood management scheme in the UK to show: • Why the scheme was required	
	 The management strategy The social, economic and environmental issues. 	