Summer 2022 Geography GCSE AQA

Paper 1 – Living with the physical environment			
		Section A	CGP pages:
The challenge of natural	Natural hazards	 Definition of a natural hazard. Types of natural hazard. Factors affecting hazard risk. 	2-3
hazards	Tectonic hazards	 Plate tectonics theory. Global distribution of earthquakes and volcanic eruptions and their relationship to plate margins. 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. Immediate and long-term responses to a tectonic hazard. Use named examples to show how the effects and responses to a tectonic hazard vary between two areas of contrasting levels of wealth. Reasons why people continue to live in areas at risk from a tectonic hazard. How monitoring, prediction, protection and planning can reduce the risks from a tectonic hazard. 	4-8
	Weather hazards	 General atmospheric circulation model: pressure belts and surface winds. Global distribution of tropical storms. 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. 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. An overview of types of weather hazard experienced in the UK. 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. 	9-14
	Climate change	 Evidence for climate change from the beginning of the Quaternary period to the present day. 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 the effects of climate change on people and the environment. Managing climate change: 	15-18

		 mitigation – alternative energy production, carbon capture, planting 	
		trees, international agreements.	
		 adaptation – change in agricultural systems, managing water supply, 	
		reducing risk from rising sea levels.	
	_	Section B	
The living	Ecosystems	• An example of a small-scale UK ecosystem to illustrate the concept of	20-22
world		interrelationships within a natural system, an understanding of producers,	
		consumers, decomposers, food chain, food web and nutrient cycling.	
		 The balance between components. The impact on the ecosystem of shares are components. 	
		changing one component.	
		An overview of the distribution and characteristics of large scale patural global access stores	
	Tropical	The physical characteristics of a transcal reinforest	22.20
	rainforests	 The physical characteristics of a tropical failinotest. The interdependence of climate, water, soils, plants, animals and 	25-29
	raimorests	• The interdependence of climate, water, sons, 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: 	
		- causes of deforestation – subsistence and commercial 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.	
		• 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.		
• The physical characteristics of a cold environment.		• The physical characteristics of a cold environment.	34-37
	Environments	 The interdependence of climate, water, soils, plants, animals and 	
		people.	
		 How plants and animals adapt to the physical conditions. 	
		Issues related to biodiversity.	
		• A case study of a cold environment to illustrate:	
		- development opportunities in cold environments: mineral	
		extraction, oil, fishing, tourism.	
		- challenges of developing cold environments: extreme temperatures,	
		water supply, inaccessibility.	
		Section C	20
Physical	UK physical	• All overview of the location of major upland/lowiand areas and river	59
ianuscapes			40.47
In the UK	Coastal	Wave types and characteristics.	40-47
	landscapes in	 Coastal processes. weathering processes – mechanical chemical 	
	the UK	- mass movement - sliding slumning and rock falls	
		- mass movement – shuning, shuniping and rock fails	
		-transportation – longshore drift	
		-deposition – why sediment is deposited in coastal areas	
		 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	
	The costs and herefits of the following monogement strategies:	
	The costs and benefits of the following management strategies:	
	 nard 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. 	
River	• The long profile and changing cross profile of a river and its valley.	49-58
landscapes in	Fluvial processes:	
the UK	 erosion – hydraulic action, abrasion, attrition, solution, 	
	vertical and lateral erosion	
	 transportation – traction, saltation, suspension and solution 	
	 deposition – why rivers deposit sediment. 	
	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	
	 levées, flood plains and estuaries. 	
	• An example of a river valley in the UK to identify its major landforms	
	of erosion and deposition.	
	• 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.	

Paper 2 – Challenges in the human environment			
		Section A	
Urban issues and challenges	Urbanisation	 The global pattern of urban change. Urban trends in different parts of the world including HICs and LICs. Factors affecting the rate of urbanisation – migration (push–pull theory), natural increase. The emergence of megacities. 	69
	Lagos Case Study (NEE)	 A case study of a major city in an LIC or NEE to illustrate: the location and importance of the city, regionally, nationally and internationally causes of growth: natural increase and migration how urban growth has created opportunities: social: access to services – health and education; access to resources – water supply, energy 	70-72

		 economic: how urban industrial areas can be a stimulus for economic development how urban growth has created challenges: managing urban growth – slums, squatter settlements providing clean water, sanitation systems and energy providing access to services – health and education reducing unemployment and crime managing environmental issues – waste disposal, air and water pollution, traffic congestion. 	
		 An example of how urban planning is improving the quality of life for the urban poor 	
	UK Cities &	 Overview of the distribution of population and the major cities 	73-76
	Liverpool Case	in the UK.	
	study	• A case study of a major city in the UK to illustrate:	
		\circ the location and importance of the city in the UK and	
		the wider world	
		 Impacts of national and international migration on the growth and character of the city. 	
		\circ how urban change has created opportunities:	
		 social and economic: cultural mix. recreation and 	
		entertainment, employment, integrated transport	
		systems	
		 environmental: urban greening 	
		 how urban change has created challenges: 	
		 social and economic: urban deprivation, inequalities in bousing, education, health and employment 	
		\circ environmental: dereliction, building on brownfield and	
		greenfield sites, waste disposal	
		 the impact of urban sprawl on the rural–urban fringe, 	
		and the growth of commuter settlements.	
		 An example of an urban regeneration project to show: 	
		 reasons why the area needed regeneration 	
		 the main features of the project. 	77 70
	Sustainable	Features of sustainable urban living:	//-/9
	Urban Living	 water and energy conservation waste recycling 	
		 creating green space. 	
		How urban transport strategies are used to reduce traffic	
		congestion.	
		Section B	
The challenge	Global	• The significance of food, water and energy to economic and	96-99
of resource	distribution of	social well-being.	
management	resources	An overview of global inequalities in the supply and consumption of resources	
		Fond:	
		 the growing demand for high-value food exports from 	
		low income countries and all-year demand for seasonal	
		food and organic produce	
		• larger carbon footprints due to the increasing number	
		of 'food miles' travelled, and moves towards local sourcing	
		01 1000 the trend towards agribusiness	
		Water:	
		 the changing demand for water 	
		 water quality and pollution management 	

	 matching supply and demand – areas of deficit and surplus the need for transfer to maintain supplies. Energy: the changing energy mix – reliance on fossil fuels, growing significance of renewables reduced domestic supplies of coal, gas and oil economic and environmental issues associated with exploitation of energy sources. 	
Water	 Areas of surplus (security) and deficit (insecurity): global patterns of water surplus and deficit reasons for increasing water consumption: economic development, rising population factors affecting water availability: climate, geology, pollution of supply, over-abstraction, limited infrastructure, poverty. Impacts of water insecurity – waterborne disease and water pollution, food production, industrial output, potential for conflict where demand exceeds supply. Overview of strategies to increase water supply: diverting supplies and increasing storage, dams and reservoirs, water transfers and desalination an example of a large-scale water transfer scheme to show how its development has both advantages and disadvantages. Moving towards a sustainable resource future: water conservation, groundwater management, recycling, 'grey' water an example of a local scheme in an LIC or NEE to increase sustainable supplies of water. 	107-112

Paper 3 – Geographical applications			
Section A – Issue evaluation			
 Assessment will consist of a series of questions related to a contemporary geographical issue, leading to a more extended piece of writing which will involve an evaluative judgement. Students will apply knowledge and understanding to interpret, analyse and evaluate the information and issue in the pre-release resources booklet and the question paper. They will also use geographical skills to set the issue in context and to examine conflicting viewpoints about the issue. 	P.121		
Section B - Fieldwork			
 Students' understanding of the enquiry process will be assessed by questions based on the use of fieldwork materials from an unfamiliar context. Students will be expected to: apply knowledge and understanding to interpret, analyse and evaluate information and issues related to geographical enquiry. select, adapt and use a variety of skills and techniques to investigate questions and issues and communicate findings in relation to geographical enquiry. 	P.122		