AQA THE CHALLENGE OF NATURAL HAZARDS

Paper 1 The Challenge of Natural Hazards PLC







reference notes interactive quizzes _			
	Red	Amber	Green
Natural hazards pose major risks to people and property			
I can give a definition of natural hazard.			
I can identify the different types of natural hazard.			
I know the factors affecting hazard risk.			
Earthquakes and volcanic eruptions are the result of physical process	es		
I know the main features of plate tectonics theory.			
I know the global distribution of earthquakes and volcanic			
eruptions and their relationship to plate margins.			
I can describe and explain the physical processes taking place at			
different types of plate margin:			
Constructive			
Destructive			
Conservative			
that lead to earthquakes and volcanic activity.			
The effects of, and responses to, a tectonic hazard vary between area	is of conti	rasting leve	els of
wealth			
I know the Immediate and long-term responses to a tectonic			
hazard.			
Using named examples, I can describe and explain how the effects			
and responses to a tectonic hazard vary between two areas of			
contrasting levels of wealth.			
Global atmospheric circulation helps to determine patterns of weather	er and clir	nate	
I know the main features of the general atmospheric circulation			
model including pressure belts and surface winds.			
Tropical storms (hurricanes, cyclones, typhoons) develop because of	particular	physical	
conditions		T	
I know the global distribution of tropical storms (hurricanes,			
cyclones, typhoons).			
I understand the relationship between tropical storms and general			
atmospheric circulation.			
I can explain the causes of tropical storms and the sequence of			
their formation and development.			
I can describe the structure and features of a tropical storm.			
I understand how climate change might affect the distribution,			
frequency and intensity of tropical storms.			

Tropical storms have significant effects on people and the environment	ent		
I know the primary and secondary effects of tropical storms.			
I know the immediate and long-term responses to tropical storms.			
Using a named example of a tropical storm I can show its effects			
and responses.			
I know how monitoring, prediction, protection and planning can			
reduce the effects of tropical storms.			
The UK is affected by a number of weather hazards			
I know the types of weather hazard experienced in the UK.			
Extreme weather events in the UK have impacts on human activity			
I know an example of a recent extreme weather event in the UK.			
I know the causes of an extreme weather event in the UK.			
I know the social, economic and environmental impacts of an			
extreme weather event in the UK.			
I know the management strategies that can reduce the risk			
associated with an extreme weather event in the UK.			
Climate change is the result of natural and human factors, and has a	range of	effects	I
I know the evidence for climate change from the beginning of the			
Quaternary period to the present day. I can describe and explain the possible causes of climate change:			
natural factors – orbital changes, volcanic activity and solar			
output.			
 human factors – use of fossil fuels, agriculture and 			
deforestation.			
I can give an overview of the effects of climate change on people.			
I can give an overview of the effects of climate change on the			
environment.			
Managing climate change involves both mitigation (reducing causes)	and adap	tation (res	ponding
to change)	T		
I know the difference between mitigation and adaptation.			
I know how alternative energy production can mitigate climate			
change.			
I know how carbon capture can mitigate climate change.			
I know how planting trees can mitigate climate change.			
I know how international agreements can mitigate climate change.		1	
I know how changes in agricultural systems supports climate			
change adaptation.			
I know how managing water supply supports climate change adaptation.			
I know how reducing risk from rising sea levels supports climate			
change adaptation.			
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AQA THE LIVING WORLD

Paper 1 The Living World PLC

Red = Not confident at all Amber = Some confidence Green = Very confident







erence notes interactive quizzes

	Red	Amber	Green
Ecosystems exist at a range of scales and involve the interaction between	ween bioti	c and abio	tic
components			
I know what an ecosystem is.			
I know an example of a small-scale ecosystem.			
I know the interrelationships within an ecosystem (how things are			
linked).			
I understand the nutrient cycle.			
I know the main features of a food chain.			
I know the main features of a food web.			
I know the impact of changes to one component in an ecosystem.			
I know the distribution of the world's main biomes.			
I know the characteristics of large scale natural global ecosystems			
(biomes).			
Tropical rainforest ecosystems have a range of distinctive characterist	stics		
I know the physical characteristics of a tropical rainforest.			
I know how climate, water, soils, plants, animals and people are			
interdependent in the tropical rainforest.			
I know how plants have adapted to physical conditions of the			
tropical rainforest.			
I know how animals have adapted to physical conditions of the			
tropical rainforest			
I know how and why the tropical rainforest ecosystem has a high			
biodiversity.			
Deforestation has economic and environmental impacts			
I know the changing rates of deforestation in the tropical			
rainforest.			
Using a case study, I know the causes of deforestation in the			
tropical rainforest.			
Using a case study, I know the impacts of deforestation in the			
tropical rainforest.			
Tropical rainforests need to be managed to be sustainable			
I know the value of tropical rainforests to people and the			
environment.			
I can identify, describe, and explain a range of strategies to manage			
the tropical rainforest ecosystem at a local scale.			
I can identify, describe, and explain a range of strategies to manage			
the tropical rainforest ecosystem at an international scale.			

You will have studied either a hot or cold ecosystem environment. You only need to review your knowledge and understanding of one of the ecosystems below.

Hot Desert Ecosystems	Red	Amber	Green
Hot desert ecosystems have a range of distinctive characteristics			
I know the physical characteristics of a hot desert.			
I know how climate, water, soils, plants, animals, and humans are			
interdependent.			
I know how plants have adapted to the physical conditions of the			
hot desert ecosystem.			
I know how animals have adapted to the physical conditions of the			
hot desert ecosystem.			
I understand the issues relating to biodiversity in the hot desert			
ecosystem.			
Development of hot desert environments creates opportunities and	challenges		
Using a case study, I can describe and explain the development			
opportunities in hot desert environments including mineral			
extraction, energy, farming, and tourism.			
Using a case study, I can describe and explain the challenges of			
developing hot desert environments including extreme			
temperatures, water supply, and inaccessibility.			
Areas on the fringe of hot deserts are at risk of desertification			
I can describe and explain the causes of desertification including			
climate change, population growths, removal of fuel wood,			
overgrazing, over-cultivation, and soil erosion.			
I can describe and explain a range of strategies used to reduce the			
risk of desertification – water and soil management, tree planting,			
and use of appropriate technology.			

Cold Environment Ecosystems	Red	Amber	Green
Cold environments have a range of distinctive characteristics			
I know the physical characteristics of a cold environment			
ecosystem.			
I know how climate, permafrost, soils, plants, animals, and humans			
are interdependent.			
I know how plants have adapted to the physical conditions of a cold			
environment ecosystem.			
I know how animals have adapted to the physical conditions of a			
cold environment ecosystem.			
I understand the issues relating to biodiversity in a cold			
environment ecosystem.			
Development of cold environments creates opportunities and challer	nges		
Using a case study, I can describe and explain the development			
opportunities in cold environments including mineral extraction,			
energy, fishing, and tourism.			
Using a case study, I can describe and explain the challenges of			
developing cold environments including extreme temperatures,			
inaccessibility, and provision of buildings and infrastructure.			

Cold environments are at risk from economic development		
I know the value of cold environments as wilderness areas and why		
these fragile environments should be protected.		
I can describe and explain strategies used to balance the needs of		
economic development and conservation in cold environments –		
use of technology, role of governments, international agreements,		
and conservation groups.		

AQA COASTAL LANDSCAPES IN THE UK

Paper 1 Coastal Landscapes in the UK PLC







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reference notes interactive quizzes	Red	Amber	Green
The coast is shaped by a number of physical processes	<u> </u>		<u> </u>
I know the different wave types and their characteristics.			
I know the processes of coastal weathering, e.g. mechanical and			
chemical weathering.			
I know the process of mass movement e.g. slumping, rock falls and			
landslides.			
I know the processes of coastal erosion e.g. hydraulic action,			
abrasion, and attrition.			
I know the processes of coastal transportation e.g. longshore drift.			
I know the processes of coastal deposition and why sediment is			
deposited.			
Distinctive coastal landforms are the result of rock type, structure, a	nd physica	I processe	S
I understand how geological structure and rock type influence			
coastal forms.			
I know the characteristics and formation of landforms resulting			
from erosion e.g. headlands and bays, cliffs and wave cut			
platforms, caves, arches, stacks, and stumps.			
I know the characteristics and formation of landforms resulting			
from deposition e.g. spits, bars, beaches, and sand dunes.			
I know a case study / example of a section of coastline in the UK to			
identify its major landforms of coastal erosion and deposition.			
Different management strategies can be used to protect coastlines f	rom the ef	ffects of ph	iysical
processes			ı
I know the costs and benefits of hard engineering e.g. sea walls,			
rock armour, gabions, and groynes.			
I know the cost and benefits of soft engineering e.g. beach			
nourishment, reprofiling, and dune regeneration.			
I know the coasts and benefits of managed retreat e.g. coastal			
realignment.			
Case Study	ı		
I know a case study of an example of a coastal management			
scheme in the UK to show why management strategies are needed.			
I know a case study of an example of a coastal management			
scheme in the UK to show the management strategies used.			
I know a case study of an example of a coastal management			
scheme in the UK to show resulting effects and conflicts.			

AQA RIVER LANDSCAPES IN THE UK

Paper 1 River Landscapes in the UK PLC







The shape of river valleys changes as rivers flow downstream I know what the long profile of a river is. I know how and why the long profile of a river changes from source	C11
I know what the long profile of a river is.	
to mouth.	
I know the characteristics of the cross profile of a river in the	
upper, middle, and low course.	
I know how and why the characteristics of the cross profile of a	
river in the upper, middle, and lower course change.	
I know the characteristics of the cross profile of a river valley in the	
upper, middle, and lower course.	
I know how and why the characteristics of the cross profile of a	
river valley in the upper, middle, and lower course change.	
I can describe and explain the 4 main processes of fluvial erosion.	
I can describe and explain the 4 main processes of fluvial	
transportation.	
I know why rivers deposit sediment.	
I know where and why rivers deposit sediment.	
Distinctive fluvial landforms result from different physical processes	
I know the characteristics and formation of landforms resulting	
from erosion:	
interlocking spurs	
waterfalls	
• gorges	
I know the characteristics and formation of landforms resulting	
from erosion and deposition:	
• meanders	
ox-bow lakes	
I know the characteristics and formation of landforms resulting	
from deposition:	
• levées	
flood plains	
• estuaries	
I know an example of a river valley in the UK to identify its major	
landforms of erosion and deposition.	

Different management strategies can be used to protect river landsc flooding		
I know how physical factors affect the flood risk:		
precipitation		
• geology		
• relief		
I know how human factors affect the flood risk:		
• land use		
I know how to use hydrographs to show the relationship between		
precipitation and discharge.		
I can describe and explain the costs and benefits of hard		
engineering strategies:		
 dams and reservoirs 		
 straightening 		
embankments		
 flood relief channels 		
I can describe and explain the costs and benefits of soft		
engineering strategies:		
 flood warnings and preparation 		
 flood plain zoning 		
 planting trees 		
 river restoration 		
I know 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 		

AQA GLACIAL LANDSCAPES IN THE UK

Paper 1 Glacial Landscapes in the UK PLC







reference notes interactive quizzes	Red	Amber	Green
Ice was a powerful force in shaping the physical landscape of the UK			
I know the maximum extent of ice cover across the UK during the			
last ice age.			
I know the processes of freeze thaw weathering.			
I know the erosional processes of abrasion and plucking.			
I know how glaciers move and transport (rotational slip and			
bulldozing).			
I know why glaciers deposit sediment (till and outwash).			
Distinctive glacial landforms result from different physical processes			
I know the characteristics and formation of landforms resulting			
from erosion including:			
corries			
arétes			
pyramidal peaks			
truncated spurs			
glacial troughs			
ribbon lakes			
hanging valleys			
I know the characteristics and formation of landforms resulting			
from transportation and deposition including:			
erratics			
drumlins			
types of moraine (lateral, medial, terminal and ground)			
I know an example of an upland area in the UK affected by			
glaciation.			
I know the major landforms of erosion and deposition for a named			
example of an upland area in the UK affected by glaciation.			
Glaciated upland areas provide opportunities for different economic	activities,	and	
management strategies can be used to reduce land use conflicts		T	
I can give an overview of economic activities in glaciated upland			
areas including tourism, farming, forestry, and quarrying.			
I can identify conflicts between different land uses in a glaciated			
upland area.			
I can identify of conflicts between development and conservation			
in a glaciated upland area.			
Using an example of a glaciated upland area in the UK used for			
tourism I can show:			

the attractions for tourists.		
social, economic and environmental impacts of tourism.		
strategies used to manage the impact of tourism.		

AQA URBAN ISSUES AND CHALLENGES

Paper 2 Urban Issues and Challenges PLC







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reference notes interactive quizzes	Red	Amber	Green
A growing percentage of the world's population lives in urban areas			
I know the global pattern of urban change.			
I understand urban trends in different parts of the world including			
HICs and LICs.			
I can explain the factors affecting the rate of urbanisation —			
migration (push–pull theory), natural increase.			
I can describe and explain the emergence of megacities.			
Urban growth creates opportunities and challenges for cities in LICs a	and NEEs		
I know 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.			
the 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.			
 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. 			
I know an example of how urban planning is improving the quality			
of life for the urban poor and can explain its main features			
Urban change in cities in the UK leads to a variety of social, economic	, and envi	ronmenta	İ
opportunities and challenges.			
Overview of the distribution of population and the major cities in the			
UK.			
Lknow a case study of a major city in the LIK to illustrate:			
I know a case study of a major city in the UK to illustrate: • the location and importance of the city in the UK and the			
wider world.			
the impacts of national and international migration on the			
growth and character of the city.			
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 housing, education, health, and employment. 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. 		
I know an example of an urban regeneration project to show:		
reasons why the area needed regeneration.the main features of the project.		
Urban sustainability requires management of resources and transpo	rt	
I know the main features of sustainable urban living:		
 water and energy conservation 		
 waste recycling 		
 creating green space. 		
I can explain how urban transport strategies are used to reduce		
traffic congestion.		

AQA THE CHANGING ECONOMIC WORLD

Paper 2 The Changing Economic World PLC







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reference notes interactive quizzes	Red	Amber	Green
There are global variations in economic development and quality of l	ife		
I know the different ways of classifying parts of the world			
according to their level of economic development and quality of			
life.			
I know the different economic and social measures of			
development: gross national income (GNI) per head, birth and			
death rates, infant mortality, life expectancy, people per doctor,			
literacy rates, access to safe water, Human Development Index			
(HDI).			
I know the limitations of economic and social measures.			
I know the link between stages of the Demographic Transition			
Model and the level of development.			
I know the causes of uneven development: physical, economic and			
historical.			
I know the consequences of uneven development: disparities in			
wealth and health, international migration.			
Various strategies exist for reducing the global development gap			
I can give an overview of the strategies used to reduce the			
development gap: investment, industrial development and			
tourism, aid, using intermediate technology, fair trade, debt relief,			
microfinance loans.			
I know an example of how the growth of tourism in an LIC or NEE			
helps to reduce the development gap.			
Some LICs and NEEs are experiencing rapid economic development v	vhich lead:	s to signific	cant
social, environmental and cultural change			
I know a case study of one LIC or NEE to illustrate:			
 the location and importance of the country, regionally and 			
globally.			
 the wider political, social, cultural and environmental context 			
within which the country is placed			
 the changing industrial structure. The balance between 			
different sectors of the economy. How manufacturing industry			
can stimulate economic development			
• the role of transnational corporations (TNCs) in relation to			
industrial development. Advantages and disadvantages of			
TNC(s) to the host country			
 the changing political and trading relationships with the wider 			
world			

 international aid: types of aid, impacts of aid on the receiving country 			
the environmental impacts of economic development			
• the effects of economic development on quality of life for the			
population.			
Major changes in the economy of the UK have affected, and will con	tinue to af	fect, empl	oyment
patterns and regional growth			
Economic futures in the UK. I know:			
 the causes of economic change: de-industrialisation and 			
decline of traditional industrial base, globalisation, and			
government policies.			
 how the UK is moving towards a post-industrial economy: 			
development of information technology, service industries,			
finance, research, science, and business parks.			
 the impacts of industry on the physical environment. An 			
example of how modern industrial development can be			
more environmentally sustainable.			
 the social and economic changes in the rural landscape in 			
one area of population growth and one area of population			
decline.			
 the improvements and new developments in road and rail 			
infrastructure, port, and airport capacity.			
 the north–south divide. Strategies used in an attempt to 			
resolve regional differences.			
 the place of the UK in the wider world. Links through trade, 			
culture, transport, and electronic communication.			
Economic and political links: the European Union (EU) and			
Commonwealth.			

AQA THE CHALLENGE OF RESOURCE MANAGEMENT

Paper 2 The Challenge of Resource Management PLC







	reference notes	interactive quizzes				
			Red	Amber	Green	
Food, water and energy are fund	amental to human	development				
I know how important food, water	er and energy are t	o economic and				
social well-being.						
I have an overview of global ineq	ualities in the supp	oly and				
consumption of resources.						
The changing demand and provis	sion of resources in	the UK create op	portunitie	es and		
challenges. An overview of resou	rces in relation to	the UK: Food				
I know there is a growing deman	d for high-value fo	od exports from				
low-income countries.						
I know there is a growing all-year	demand for seaso	nal food and				
organic produce.						
I understand how large carbon fo	otprints are associ	ated with the				
increased number of 'food miles'	travelled and mov	es towards				
local sourcing of food.						
I understand the trend towards a						
The changing demand and provis	ion of resources in	the UK create op	portunitie	es and		
challenges. An overview of resou	rces in relation to	the UK: Water				
I know the changing demand for						
I can discuss water quality and pe	ollution manageme	ent.				
I know how the UK matches su	pply and demand f	or water and				
the areas of deficit and surplus.						
I understand the need for transfe		<u> </u>				
The changing demand and provis			portunitie	es and chal	lenges.	
An overview of resources in relat		0,				
I know how the energy mix in the						
fossil fuels and the growing signif						
I know how supplies of coal, gas						
I know the economic issues assoc	ciated with exploita	ation of energy				
issues.						
I know the environmental issues	associated with the	e exploitation of				
energy resources.						

You will have studied either food, water or energy resources in depth. You only need to complete your PLC for the area you have studied.

Food

	Red	Amber	Green
Demand for food resources is rising globally but supply can be insecu	ire, which	may lead t	0
conflict			
I know the global patterns of calorie intake and food supply.			
I know the reasons for increasing food consumption (economic			
development and rising population).			
I know the factors affecting food supply: climate, technology, pests and disease, water stress, conflict, poverty.			
I know the impacts of food insecurity – famine, undernutrition, soil			
erosion, rising prices, social unrest.			
Different strategies can be used to increase food supply			
I can give an overview of strategies to increase food supply			
including irrigation, aeroponics and hydroponics, the new green			
revolution and use of biotechnology, appropriate technology.			
I know an example of a large-scale agricultural development to show how it has both advantages and disadvantages.			
I know the potential for sustainable food supplies: organic farming, permaculture, urban farming initiatives, fish and meat from sustainable sources, seasonal food consumption, reduced waste and losses.			
I know an example of a local scheme in an LIC or NEE to increase			
sustainable supplies of food.			<u> </u>

Water

		Т	
	Red	Amber	Green
Demand for water resources is rising globally but supply can be insec	cure, which	n may lead	to
conflict			
I know the global patterns of water supply and deficit.			
I know the reasons for increasing water consumption: economic development and rising population.			
I know the factors affecting water availability: climate, geology, pollution of supply, over-abstraction, limited infrastructure, poverty.			
I know the impacts of water insecurity – waterborne disease and water pollution, food production, industrial output, potential for conflict where demand exceeds supply.			
Different strategies can be used to increase water supply			
I can give an overview of strategies to increase water supply including diverting supplies and increasing storage, dams and reservoirs, water transfers and desalination.			
I know an example of a large scale water transfer scheme to show how its development has both advantages and disadvantages.			
I know the potential for sustainable water supplies: water conservation, groundwater management, recycling, 'grey' water.			
I know an example of a local scheme in an LIC or NEE to increase sustainable supplies of water.			

Energy

	Red	Amber	Green
Demand for energy resources is rising globally but supply can be inse	cure, whic	ch may lead	d to
conflict			
I know the global distribution of energy consumption and supply.			
I know the reasons for increasing energy consumption: economic development, rising population, technology.			
I know the factors affecting energy supply: physical factors, cost of exploitation and production, technology and political factors.			
I know the impacts of energy insecurity – exploration of difficult and environmentally sensitive areas, economic and environmental costs, food production, industrial output, potential for conflict where demand exceeds supply.			
Different strategies can be used to increase energy supply			
I can give an overview of strategies to increase energy supply including renewable (biomass, wind, hydro, tidal, geothermal, wave and solar) and non-renewable (fossil fuels and nuclear power) sources of energy.			
I know an example to show how the extraction of a fossil fuel has both advantages and disadvantages.			
I know the potential for sustainable energy supplies: individual energy use and carbon footprints energy conservation: designing homes, workplaces, and transport for sustainability. demand reduction			
 use of technology to increase efficiency in the use of fossil fuels. 			
I know an example of a local renewable energy scheme in an LIC or NEE to provide sustainable supplies of energy.			