

THE CHALLENGE OF NATURAL HAZARDS

			Confidence
I can...	1	2	3
NATURAL HAZARDS			
Define a natural hazard and give some examples of the different types			
Explain the different factors that affect risk			
TECTONIC HAZARDS			
Explain the plate tectonics theory			
Describe the global distribution of earthquakes and volcanic eruptions			
Explain the differences between destructive, constructive and conservative plate margins.			
Identify the primary and secondary effects of a tectonic hazard			
Identify the immediate and long-term responses to a tectonic hazard			
Use named examples to show how the effects and responses to tectonic hazards vary between two areas of contrasting levels of wealth			
LIC named example: Port-au-Prince, Haiti (2010)			
HIC named example: Christchurch, New Zealand (2011)			
Give reasons why people continue to live in areas at risk from a tectonic hazard			
Explain how monitoring, prediction, protection and planning can reduce risks from a tectonic hazard			
WEATHER HAZARDS			
Describe the general atmospheric circulation model			
Describe the global distribution of tropical storms			
Show an understanding of the relationship between tropical storms and general atmospheric circulation			
Explain the causes of tropical storms and the sequence of their formation and development			
Explain the features and structure of a tropical storm			
Explain how climate change might affect the distribution, frequency and intensity of tropical storms			
Identify the primary and secondary effects of tropical storms			
Identify the immediate and long-term responses to tropical storms			
Use a named example of a tropical storm to show its effects and responses			
Named example: Hurricane Katrina, New Orleans, Louisiana, USA (2005)			
Explain how monitoring, prediction, protection and planning can reduce the effects of tropical storms			
Give an overview of types of weather hazard experienced in the UK			
Use an example of a recent extreme weather event in the UK to illustrate causes, impacts and management strategies			
Example: Beast from the East (2018)			
Identify evidence that weather is becoming more extreme in the UK			
CLIMATE CHANGE			
Explain the evidence for climate change from the beginning of the Quaternary period to the present day			
Explain the natural and human causes of climate change			
Give an overview of the effects of climate change on people and the environment			
Explain how climate change can be managed through mitigation and adaptation			

THE LIVING WORLD

Confidence			
I can...			
ECOSYSTEMS			
Give an example of a small scale UK ecosystem to illustrate the concept of interrelationships within a natural system, an understanding of producers, consumers, decomposers, food chain, food web and nutrient cycling			
Example: Woodland			
Explain the balance between components, and the impact on the ecosystem of changing one component			
Give an overview of the distribution and characteristics of large scale natural global ecosystems			
TROPICAL RAINFORESTS			
Outline the physical characteristics of a tropical rainforest			
Explain the interdependence of climate, water, soils, plants, animals and people			
Describe how plants and animals adapt to the physical conditions			
Outline issues related to biodiversity			
Describe the changing rates of deforestation			
Use a case study of a tropical rainforest to illustrate the causes of and impacts deforestation			
Case study: Amazon Rainforest, South America			
Describe the value of tropical rainforests to people and the environment			
Evaluate the strategies used to manage the rainforest sustainably			
COLD ENVIRONMENTS			
Describe the physical characteristics of a cold environment			
Explain the interdependence of climate, permafrost, soils, plants, animals and people			
Explain how plants and animals adapt to the physical conditions			
Identify issues related to biodiversity			
Use a case study of a cold environment to illustrate the development opportunities and challenges in cold environments			
Case study: Alaska, USA			
Explain the value of cold environments as wilderness areas and why these fragile environments should be protected			
Evaluate the strategies used to balance the needs of economic development and conservation in cold environments			

PHYSICAL LANDSCAPES IN THE UK

			Confidence
I can...	Smiley	Neutral	Unsmiley
UK PHYSICAL LANDSCAPES			
Give an overview of the location of major upland/lowland areas and river systems			
COASTAL LANDSCAPES IN THE UK			
Describe wave types and characteristics			
Describe mechanical and chemical weathering processes			
Describe mass movement – sliding, slumping and rock falls			
Describe erosion – hydraulic power, abrasion and attrition			
Describe transportation – longshore drift			
Describe deposition – why sediment is deposited in coastal areas			
Describe how geological structure and rock type influence coastal forms			
Explain the characteristics and formation of headlands and bays, cliffs and wave-cut platforms, caves, arches and stacks			
Explain the characteristics and formation of beaches, sand dunes, spits and bars			
Use an example of a section of coastline in the UK to identify its major landforms of erosion and deposition			
Example: South Devon AONB			
Evaluate the costs and benefits of hard engineering management strategies			
Evaluate the costs and benefits of soft engineering management strategies			
Evaluate the costs and benefits of managed retreat			
Use an example of a coastal management scheme in the UK			
Example: Lyme Regis, Dorset			
RIVER LANDSCAPES IN THE UK			
Describe the long profile and changing cross profile of a river and its valley			
Describe erosion – hydraulic power, abrasion, attrition solution, vertical and lateral erosion			
Describe transportation – traction, saltation, suspension and solution			
Describe deposition – why rivers deposit sediment			
Explain the characteristics and formation of interlocking spurs, waterfalls and gorges			
Explain the characteristics and formation of meanders and ox-bow lakes			
Explain the characteristics and formation of levées, floodplains and estuaries			
Use an example of a river valley in the UK to identify its major landforms of erosion and deposition			
Example: River Tees, north east England			
Describe how physical and human factors affect the flood risk			
Use hydrographs to show the relationship between precipitation and discharge			
Evaluate the costs and benefits of hard engineering management strategies			
Evaluate the costs and benefits of soft engineering management strategies			
Use an example of a flood management scheme in the UK			
Example: Totnes, Devon			

URBAN ISSUES AND CHALLENGES

				Confidence
I can...	😊	😐	☹️	
URBANISATION				
Identify the global pattern of urban change				
Describe urban trends in different parts of the world including HICs and LICs				
Explain factors affecting the rate of urbanisation				
Describe the emergence of megacities				
URBAN GROWTH IN A MAJOR CITY IN AN LIC OR NEE (CASE STUDY)				
Name of case study: Rio de Janeiro, Brazil				
Describe the location and importance of the city, regionally, nationally and internationally				
Explain the causes of growth: natural increase and migration				
Discuss how urban growth has created social and economic opportunities				
Discuss how urban growth has created challenges				
Evaluate an example of how urban planning is improving the quality of life for the urban poor				
Name of example: Favela Bairro Project, Rio de Janeiro, Brazil				
URBAN CHANGE IN A MAJOR UK CITY (CASE STUDY)				
Name of case study: Bristol				
Give an overview of the distribution of population and the major cities in the UK				
Describe the location and importance of the city in the UK and the wider world				
Describe the impacts of national and international migration on the growth and character of the city				
Discuss how urban change has created social, economic and environmental opportunities				
Discuss how urban change has created social, economic and environmental challenges				
Explain an example of an urban regeneration project				
Name of example: Temple Quarter Regeneration, Bristol				
URBAN SUSTAINABILITY				
Describe features of sustainable urban living				
Evaluate how urban transport strategies are used to reduce traffic congestion				

THE CHANGING ECONOMIC WORLD

			Confidence
I can...	Smile	Neutral	Worried
VARIATIONS IN GLOBAL DEVELOPMENT			
Classify parts of the world according to their level of economic development			
Classify parts of the world according to their quality of life			
Recall economic and social measures of development			
Evaluate measures of development			
Describe the stages of the Demographic Transition Model			
Describe causes of uneven development: physical, economic and historical.			
Explain the consequences of uneven development: disparities in wealth and health, international migration.			
REDUCING THE DEVELOPMENT GAP			
Describe strategies used to reduce the development gap			
Use an example to show how the growth of tourism in an LIC or NEE helps to reduce the development gap			
Name of example: Kenya			
RAPID ECONOMIC DEVELOPMENT IN AN LIC OR NEE (CASE STUDY)			
Name of case study: Nigeria			
Describe the location and importance of the country, regionally and globally			
Illustrate the wider political, social, cultural and environmental context within which the country is placed			
Explain the changing industrial structure			
Outline the role of transnational corporations (TNCs) in relation to industrial development			
Describe the changing political and trading relationships with the wider world			
Illustrate international aid: types of aid, impacts of aid on the receiving country			
Explain the environmental impacts of economic development			
Explain the effects of economic development on quality of life for the population			
UK ECONOMIC DEVELOPMENT			
Describe the causes of economic change			
Give details about moving towards a post-industrial economy			
Outline the impacts of industry on the physical environment			
Give an example of how modern industrial development can be more environmentally sustainable			
Name of example: Torr Quarry, Somerset			
Explain social and economic changes in the rural landscape			
Explain improvements and new developments in road and rail infrastructure, port and airport capacity			
Evaluate strategies used in an attempt to resolve regional differences			
Explain the place of the UK in the wider world			

THE CHALLENGE OF RESOURCE MANAGEMENT

Confidence			
I can...	😊	😐	😢
RESOURCE MANAGEMENT			
Describe the significance of food, water and energy to economic and social well-being			
Give an overview of global inequalities in the supply and consumption of resources			
Give an overview of resources in relation to the UK			
Explain the growing demand for high-value food exports from low income countries and all-year demand for seasonal food and organic produce			
Explain how larger carbon footprints are due to the increasing number of 'food miles' travelled, and moves towards local sourcing of food			
Explain the trend towards agribusiness			
Describe the changing demand for water			
Describe water quality and pollution management			
Identify areas of water deficit and surplus			
Explain the need for water transfer to maintain supplies			
Outline the changing energy mix in the UK			
Explain why there are reduced domestic supplies of coal, gas and oil			
Evaluate economic and environmental issues associated with exploitation of energy sources			
ENERGY			
Identify areas of surplus (security) and deficit (insecurity)			
Outline the global distribution of energy consumption and supply			
Give reasons for increasing energy consumption			
Explain the factors affecting energy supply			
Explain the impacts of energy insecurity			
Give an overview of renewable and non-renewable sources of energy to increase energy supply			
Use an example to show how the extraction of a fossil fuel has both advantages and disadvantages			
Example: Natural gas			
Explain how we are moving towards a sustainable resource future			
Evaluate an example of a local renewable energy scheme in an LIC or NEE to provide sustainable supplies of energy			
Example: Micro-hydro scheme in Chambamontera, Peru			