










THE CHALLENGE OF NATURAL HAZARDS

		Confidence		
I can...				
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: <i>Port-au-Prince, Haiti (2010)</i>				
HIC named example: <i>Christchurch, New Zealand (2011)</i>				
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: <i>Hurricane Katrina, New Orleans, Louisiana, USA (2005)</i>				
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: <i>Beast from the East (2018)</i>				
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: <i>Woodland</i>				
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: <i>Amazon Rainforest, South America</i>				
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: <i>Alaska, USA</i>				
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...				
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: <i>South Devon AONB</i>				
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: <i>Lyme Regis, Dorset</i>				
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: <i>River Tees, north east England</i>				
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: <i>Totnes, Devon</i>				




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: <i>Rio de Janeiro, Brazil</i>				
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: <i>Favela Bairro Project, Rio de Janeiro, Brazil</i>				
URBAN CHANGE IN A MAJOR UK CITY (CASE STUDY)				
Name of case study: <i>Bristol</i>				
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: <i>Temple Quarter Regeneration, Bristol</i>				
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...				
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: <i>Natural gas</i>				
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: <i>Micro-hydro scheme in Chambamontera, Peru</i>				