Natural hazards

Tectonic hazards:

Topic area	:)	:/	: (
Different types of hazard (geological, atmospheric, tectonic, biological)			
Plate tectonic theory (Structure of the earth, continental drift, Pangaea, convection currents)			
Processes that occur at plate boundaries (constructive, destructive, conservative)			
Impacts and responses to two earthquakes (HIC- Amatrice 2016, LIC = Nepal			
Management of hazards (planning, prediction and prevention)			
Why do people choose to live in hazardous areas?			

Weather hazards:

Topic area	:)	:/	: (
Global atmospheric circulation (high and low pressure, Hadley/Ferrrel/Polar cell)			
How do tropical storms form?			
Distribution of tropical storms (where now and in the future?)			
Impacts and responses to a names tropical storm (Typhoon Haiyan)			
Management of storms (planning, prediction and preventions)			
Named example of extreme weather in the UK (Somerset or Banbury)			

Climate Change:

Topic area	:)	:/	: (
How has the UK climate changed throughout the Quaternary peLagosd ?(Last 2.4 million years)			
Evidence of climate change (dendrochronology, ice cores, pollen, paintings, records)			
Anthropogenic and natural causes of climate change			
Impacts of climate change (positive and negative)			
Management of climate change (mitigation and adaptation			

Living World

Ecosystems

Topic area	:)	:/	: (
Roles in an ecosystem (consumer, producer, decomposer, scavenger etc)			
Distribution and characteristics of large scale ecosystems (desert, rainforest, savanna, tundra, deciduous and coniferous forest)			
Small scale ecosystem example (Epping Forest (HB) or Yellowstone (NC)			

Tropical rainforests

Topic area	:)	:/	: (
Characteristics (climate, location, soil) of rainforests			
How are animals and plants adapted to survive in the rainforest (drip tip leaves, buttress roots, lianas, epiphytes(			
Causes of deforestation			
Named example of rainforest experiencing deforestation (Malaysia)			
Management strategies to sustainably protect the rainforest (local: selective logging, conservation + education, ecotourism. Global: debt relief, international agreements)			

COLD environments

Topic area	:)	:/	: (
Characteristics (climate, location, soil) of cold environments			
How are animals and plants adapted to survive in cold environments			
Human threats to the cold environments			
Opportunities and challenges in a named cold environment (Alaska)			
Sustainable management of cold environments			

UK Landscapes

Coastal landscapes	:)	:/	: (
Distribution of upland and lowland areas in the UK			
What are the different types of waves and characteristics of these?			
How does erosion occur at the coast? (abrasion, attrition, hydraulic action, solution)			
How is sediment transported at the coast? (traction, saltation, suspension, solution, longshore drift)			
What are the different types of weathering and mass movement? (W- biological, chemical and physical. M- slumping, sliding, rockfall)			
How do erosional landforms form at the coast? (headland + bay, cave, arch, stack, stump, wave cut platform)			
How do depositional landforms form at the coast? (beach, spit + bar, sand dune)			
How can we protect the coast from erosion? (hard and soft engineering)			
Have Lyme Regis been successful in protecting the coast?			

River landscapes	:)	:/	: (
Different parts of the river (Upper, middle, lower course, tributary, confluence)			
What do a long profile and cross profile show? How do these change downstream?			
Formation of landforms in the upper course (energyfall, plunge pool, gorge)			
Formation of landforms in the middle course (meander, oxbow lake)			
Formation of landforms in the lower course (flood plain, levee, estuary)			
How can we reduce the risk of flooding? (hard and soft engineering)			
How have Banbury reduced the risk of flooding?			

Urban Challenges

LIC/NEE CITY - Lagos	:)	:/	: (
Patterns of urban change (where are cities growing/shrinking)			
Factors affecting rate of urbanisation (push and pull factors, natural increase)			
Megacities			
Location and importance of Lagos			
Social challenges and opportunities (healthcare, education, energy, electricity)			
Economic challenges and opportunities (crime, unemployment)			
Environmental challenges (Waste, air pollution, traffic, energy pollution)			
Favelas (challenges)			
Improving quality of life for the urban poor			
MAJOR UK CITY- London	**:)**	**:/**	**: (**
Distribution of major UK cities			
Location and importance of London			
Impacts of migration on the character of London			
Social opportunities + challenges (social inequality)			
Economic opportunities (Aardman studios, Defence Agency)			
Environmental challenges (urban sprawl, waste, dereliction)			
Improving London Environment			
Urban regeneration project (Olympic Park- why was this needed and what did they do?)			

Sustainability	:)	:/	: (
How can a city become more sustainable?			
Freiberg			
Strategies to reduce traffic congestion (Beijing, Singapore, Freiberg)			

Changing Economic World

Development Gap	:)	:/	: (
Measuring development (birth rate, death rate, life expectancy, etc)			
Classifying development (HIC.LIC/NEE, MEDC/LEDC, Brant Line)			
What does the demographic transition model show and how does this change?			
How do populations change (pyramids) as a country develops?			
Causes of uneven development (physical, economic and historical)			
Consequences of the development gap (wealth, health and migration)			
Reducing the development gap (aid, FDI, debt relief, fair trade, microfinance, intermediate technology)			
How have Jamaica reduced the development gap? (tourism)			

NEE economy Nigeria	:)	:/	: (
Context of Nigeria (location, history, culture, importance)			
How has Nigeria's economic structure changed?			
Trans-national corporations (what are these, impacts)			
How has international aid helped Nigeria develop?			
Impact of development on quality of life			

UK economy	:)	:/	: (
Causes of deindustrialisation			
Post-industrial economy (development of tech, services, finance)			
Science and business parks (Why locate here?)			
Environmental impacts of industry + sustainability (JCB)			
Impacts of population change (Outer Hebrides and South Cambridge)			
How has the UK improved transport? (HS2 Liverpool2, Heathrow + smart motorways			
North-south divide +solutions to this			
UK links to wider world (trade, culture, EU, Commonwealth)			

Resource management

QUESTION 3- UK RESOURCES	:)	:/	: (
How is demand for food in the UK changing? Impacts of this?			
Managing food supply (agribusiness, organic farming, shop local)			
How is demand for energy in the UK changing? Challenges of this			
Surplus v deficit and managing this			
How has the UK's energy mix changed?			
Issues with exploiting energy resources (Wind and nuclear)			

QUESTION 5- Energy	:)	:/	: (
Global pattern of energy security (surplus v deficit)			
Why is demand for energy increasing?			
Factors affecting energy security/availability			
Impacts of energy insecurity			
Increasing energy supplies			
Example of large scale energy scheme			
Sustainable energy management (designing homes, workplaces and transport for sustainability, demand reduction, use of technology to increase efficiency in the use of fossil fuels)			
Example of local scheme in NEE/LIC to increase energy supplies			