

KS4
Year 10

Autumn Term		Spring Term		Summer Term	
<p>Key knowledge: What natural hazards are & why they happen. Different types of natural hazard. Factors affecting hazard risk. The physical processes that cause volcanoes and earthquakes. The effects of and responses to volcanoes & earthquakes. The Christchurch earthquake case study. The extent to which wealth influences the effects of, and responses to earthquakes (including Haiti earthquake case study). How to manage the risk of tectonic hazards. Reasons why people live in areas at risk from tectonic hazards. What tropical storms and where they happen. How tropical storms form and develop. The effects of and responses to tropical storms. Typhoon Haiyan case study. Methods to reduce the effects of tropical storms. How climate change might affect tropical storms. General atmospheric circulation model: pressure belts and surface winds. Links to tropical storms. Extreme weather events in the UK – case study: Beast from the East. Evidence to show climate change. The possible human and natural causes of climate change. The likely effects of climate change. Management of climate change through mitigation & adaptation.</p>		<p>Key knowledge: What an ecosystem is. A small-scale local ecosystem. The differences between a food chain & a food web. The impacts of changing one component of an ecosystem. The distribution & characteristics of the world's biomes. The physical characteristics of tropical rainforests (TRF) and hot deserts (HD). The interdependence of climate, water, soils, plants, animals & people in the TRF and HD. How plants & animals adapt to the physical conditions in the TRF & HD. Biodiversity issues in the TRF & HD. Case study: The Amazon TRF The changing rates of deforestation in the Amazon TRF. The causes & impacts of deforestation in the Amazon TRF. The value of the TRF to people & the environment. Strategies to manage the TRF sustainably. Case study: The Sahara hot desert. Development opportunities in the Sahara. Challenges of developing the Sahara. Causes of desertification. Strategies used to reduce the risk of desertification.</p>		<p>Key Knowledge: What urbanisation means. The global pattern of urban change. Urban trends in different parts of the world. Factors affecting the rate of urbanisation – migration & natural increase. The emergence of megacities. Case study of a city in an NEE: Lagos. The location & importance of Lagos. Causes of the growth of Lagos. The social and economic opportunities & challenges created by the growth of Lagos. An example of how urban planning is improving the quality of life of the urban poor – the Makoko floating school. Locate the major cities of the UK. Case study of a major UK city: Birmingham. The location & importance of Birmingham. The impact of national & international migration on Birmingham. The opportunities & challenges created by urban change in Birmingham. An example of an urban regeneration project: Longbridge. Features of sustainable urban living. How urban transport strategies can reduce congestion.</p>	
<p>Pupils will be able to: Define natural hazard and explain factors that affect hazard risk. Explain why tectonic plates move. Explain the physical processes and tectonic activity at each plate boundary. Assess the effects of and responses to volcanoes & earthquakes. Evaluate the impact that wealth has on the effects of, and responses to earthquakes. Assess the different methods to manage the risk of tectonic hazards. Assess the reasons why people live in areas at risk from tectonic hazards. Locate and describe the global distribution of tropical storms (Hurricanes, typhoons, cyclones). Explain the formation and structure of tropical storms. Assess the effects of, and responses to tropical storms. Use a detailed example in their work (Typhoon Haiyan). Evaluate the methods used to reduce the impacts of tropical storms. Investigate the impact of climate change on the frequency, severity and distribution of tropical storms. Explain the General Atmospheric Circulation model and its links to the development of tropical storms. Use the Beast from the East example to describe the causes, effects and response for a UK extreme weather event. Assess the evidence for short & long-term climate change. Explain the human and physical causes of climate change. Explain the likely effects of climate change. Evaluate attempts to mitigate and adapt to climate change.</p>	<p>Key Vocabulary: Natural hazard Plate tectonics Divergent Convergent Transform Subduction Primary effect Secondary effect Immediate response Long-term response Monitoring Prediction Protection Planning Storm surge Wind shear Low pressure High pressure Extreme weather Greenhouse effect Global warming Climate change Mitigation Adaptation</p>	<p>Pupils will be able to: Define key ecosystems vocabulary. Describe the various links and relationships in food chains & food webs. Explain how natural & human changes to ecosystems affect them. Explain how nutrient cycling works. Describe the location and characteristics of biomes & explain reasons for their location. Locate & name the tropical rainforests (TRF) and hot deserts (HD). Draw, describe & explain a TRF and HD climate graph. Describe the physical characteristics of the TRF & HD and explain how the components are interdependent. Explain a range of plant & animal adaptations in the TRF & HD. Describe the biodiversity of the TRF & HD and how it is threatened by human action. Analyse and explain deforestation data for the Amazon TRF. Categorise, describe & explain the causes and impacts of deforestation in the Amazon TRF. Evaluate the importance of the TRF for people & the environment. Evaluate the different strategies used to manage the TRF sustainably. Explain the development opportunities in the Sahara HD. Evaluate the challenges of developing the Sahara HD. Outline the human & physical causes of desertification. Evaluate a range of strategies aimed at managing the risk of desertification in the HD.</p>	<p>Key Vocabulary: Flora Fauna Biotic Abiotic Biome Producer Consumer Decomposer Food chain Food web Nutrient cycling Interdependence Biodiversity Subsistence farming Commercial farming Logging Sustainability Ecotourism Inaccessibility Appropriate technology</p>	<p>Pupils will be able to: Define urbanisation key terms. Describe & explain the global pattern of urban change. Interpret a complex line graph. Identify push and pull factors & calculate natural increase. Map the changing locations of megacities. Describe & explain the distribution of megacities and their characteristics. Describe the location of Lagos and graph its population growth over time. Explain the regional, national and international importance of Lagos. Assess the opportunities & challenges created by the growth of Lagos. Explain how the Makoko floating school is improving the quality of life of the urban poor in Lagos. Map the major cities of the UK (including Birmingham) and describe the UK population distribution. Explain the national & international importance of Birmingham. Evaluate the impact of migration on Birmingham. Evaluate the opportunities & challenges created by urban change in Birmingham. Describe the reasons for and main features of an urban regeneration project in Birmingham: Longbridge. Define urban sustainability. Evaluate the different features of sustainable urban living.</p>	<p>Key Vocabulary: Urbanisation Natural increase Rural to urban migration Megacity Social Economic Squatter settlement Sanitation Quality of life Cultural mix Recreation Integrated transport system Urban greening Deprivation Inequalities Dereliction Greenfield site Brownfield site Urban regeneration Rural-urban fringe Commuter settlement Sustainability Conservation Congestion</p>
<p>Assessment: Retrieval practice, regular skills and knowledge based checkpoints with whole class feedback, peer/self-assessment. TLAs. AAFPOL.</p>		<p>Assessment: Retrieval practice, regular skills and knowledge based checkpoints with whole class feedback, peer/self-assessment. TLAs. AAFPOL.</p>		<p>Assessment: Retrieval practice, regular skills and knowledge based checkpoints with whole class feedback, peer/self-assessment. TLAs. AAFPOL.</p>	
<p>Enrichment Opportunities: Period 6 revision lessons</p>		<p>Enrichment Opportunities: Period 6 revision lessons</p>		<p>Enrichment Opportunities: Period 6 revision lessons</p>	