Year 10 Big Picture – Geography

Autumn 01 *Weeks 1 – 7(6 weeks)*	*Autumn 02* *Weeks 8 – 15 (8 weeks)*	*Spring 01* *Weeks … - … (6 weeks)*
Content • Features of a drainage basin • Long profile and cross profile of a river • Types of erosion • The formation of V shaped valleys and interlocking spurs • The formation of waterfalls and gorges • Types of transportation and deposition • Formation of meanders and oxbow lakes • Formation of flood plains and levees • Formation of an estuary • Example of a river valley to show landforms of erosion and deposition – river Tee's • Drainage basin system – throughflow, infiltration and surface run off Causes of floods (human and physical) • Flood hydroflow graphs • Hard and soft engineering • Flood management scheme – Banbury case study	Content • Wave types and characteristics • Weathering and mass movement – sliding, slumping and rockfalls • Types of erosion • Headlands and bays • Formation of wave cut platforms • Formation of CASS • Transportation and longshore drift (The formation of beaches) • The formation of spits • The formation of bars • The formation and features of sand dunes • Case study – The Jurassic Coast • Hard and soft engineering strategies • Sea wall, rock armour, gabions, groynes • Beach nourishment and re-profiling, dune regeneration, managed retreat • Lyme Regis – coastal management case study	Content • Hazards – What are natural hazards? What factors affect their risk? • Four layers of the earth and Pangea • Distribution of earthquakes and volcanoes • Processes taking place at constructive, destructive, conservative plate boundaries • Features of earthquakes – measuring, focus, epicentre and seismic waves • Primary and secondary effects of a tectonic hazard – Nepal vs. Chile • Immediate and long term responses to tectonic hazards • Case study to show the effects and responses to an earthquake in a HIC (New Zealand) • Case study to show the effects and responses to an earthquake in a LIC (Nepal) • Reasons why people continue to live in areas of natural hazards • How monitoring, prediction, protection and planning can reduce the risk from a tectonic hazard
Assessment Objectives • **Identify the features of a hydrograph** • **Explain the physical factors that affect the shape of a hydrograph** • **Identify features of the upper/middle/lower course of a river** • **Describe the processes that create these features** • **Evaluate the impact of a flood management scheme**	Assessment Objectives • **Identify different coastal features on an OS map** • **Explain the formation cave, arch, stack and stump** • **Describe the process that create these features** • **Explain the use of some hard and soft engineering coastal management strategies** • **Evaluate the impacts of coastal management strategies at Lyme Regis**	Assessment Objectives • **Explain the factors that increase the risk of natural hazards** • **Explain the process that occur at each of the plate boundaries** • **Explain the primary and secondary effects of an earthquake in an LIC and a HIC** • **Evaluate the responses to an earthquake in an LIC and HIC** • **Explain and evaluate how effective strategies to reduce the risk of tectonic hazards are**

Spring 02 *Weeks … (Spring 01) – … (6 weeks)*	*Summer 01* *Weeks … – …. (5 weeks)*	*Summer 02* *Weeks 33 – 39 (7 weeks)*
• Global atmospheric circulation • Location and weather features associated with tropical storm • The causes of tropical storms • Features of tropical storms, including measurement, and tracking • How might climate change influence the distribution, frequency and intensity of tropical storms in the future • Katrina – primary/ secondary effects. • Immediate and long term responses.	Content • Evidence of climate change • Human causes of climate change • Physical causes of climate change • Effects of climate change on the UK • Global effects of climate change • Managing climate change – mitigation and adaption.	Content • A small scale ecosystem in the UK – Hedgerow, and the impacts of making changing to this ecosystem. • Distribution of the world's major biomes and the characteristics of these • Location of tropical rainforest and its climate. • Features of a Rainforest – layers • Nutrient cycle – interdependence • Plant and animal adaptation

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• How monitoring, prediction, protection and planning can reduce the effects of tropical storms. • An overview of types of weather hazard experienced in the UK. • An extreme weather event in the UK – Somerset Level Floods 1. Causes 2. Social, economic and environmental impacts 3. How management strategies can reduce risk.		• Amazon deforestation – causes and consequences • Rainforest management • Location and climate of hot deserts • How animals and plants have adapted to the desert • Case study: Opportunities and challenges to development in the desert – Malaysian rainforest • Managing desertification .
Assessment Objectives • **Describe the global distribution of tropical storms** • **Describe the features of a tropical storm** • **Explain the causes of tropical storm formation** • **Explain how climate change may influence tropical storms** • **Explain the primary and secondary effects of Hurricane Katrina** • **Evaluate the Immediate and long term response to Hurricane Katrina** • **Explain how different monitoring, prediction, protection and planning techniques can reduce the effects** • **Explain the causes of the Somerset Level floods** • **Explain and evaluate the impacts of the floods.**	Assessment Objectives • **Explain some evidence of climate change** • **Explain the natural causes of climate change** • **Explain the human causes of climate change** • **Identify the effects of climate change on the UK (both positive and negative)** • **Explain the effects of climate change in the UK (both positive and negative)** • **Explain the global effects of climate change** • **Evaluate the strategies used to manage climate change**	Assessment Objectives • **Describe the distribution of the world's biomes** • **Describe the characteristics of the different biomes** • **Describe the location of the worlds rainforests** • **Describe the climate and features of the worlds rainforests** • **Explain how the nutrient cycle leads to the rapid growth of the rainforest** • **Explain how both plants and animals adapt to the climatic conditions of the rainforest** • **Explain the causes and consequences of deforestation** • **Evaluate some rainforest management techniques**