

Natural Hazards	<b>Tectonic Hazards</b>	<b>Weather Hazards</b>	<b>Climate Change</b>
	<ul style="list-style-type: none"> <li>• Volcano/earthquake location</li> <li>• Plate boundaries (constructive, conservative and destructive)</li> <li>• Earthquake case study effects and responses: <ul style="list-style-type: none"> <li>• LIC (<b>Haiti</b>)</li> <li>• HIC (<b>L'Aquila</b>)</li> </ul> </li> <li>• Living with tectonic hazards (<b>Iceland</b>)</li> <li>• Limiting earthquake damage <ul style="list-style-type: none"> <li>• Predict, protect, prepare</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Global atmospheric circulation</li> <li>• Tropical storms: <ul style="list-style-type: none"> <li>• Location</li> <li>• How/why form</li> <li>• Structure</li> <li>• How climate change affects them</li> </ul> </li> <li>• Effects and responses to a tropical storm (<b>Hurricane Katrina</b>)</li> <li>• Limiting damage (predict, protect, plan)</li> <li>• Cause, effect and response to UK extreme weather (<b>Beast from the East</b>)</li> </ul>	<ul style="list-style-type: none"> <li>• Evidence of climate change</li> <li>• Causes of climate change: <ul style="list-style-type: none"> <li>• Natural (orbital change, volcanic activity, sunspots)</li> <li>• Human (fossil fuels, agriculture, deforestation)</li> </ul> </li> <li>• Effects on people and the environment</li> <li>• Managing climate change: <ul style="list-style-type: none"> <li>• Mitigation (alternative energy, carbon capture, planting trees, international agreements)</li> <li>• Adaptation (change agriculture systems, manage water supply, reduce risk from sea level rise)</li> </ul> </li> </ul>
Living World		<b>Rainforests</b>	<b>Cold Environments</b>
	<ul style="list-style-type: none"> <li>• Differences between Biomes and Ecosystems</li> <li>• Location and climate characteristics of different Biomes</li> <li>• Factors effecting climate of Biomes</li> <li>• Nutrient Cycle <ul style="list-style-type: none"> <li>• Producers</li> <li>• Consumers</li> <li>• Decomposer</li> </ul> </li> <li>• Food Chains and Food webs</li> <li>• Example of a small-scale ecosystem e.g. A pond</li> </ul>	<ul style="list-style-type: none"> <li>• Location and climate</li> <li>• Characteristics of rainforests</li> <li>• Plant and animal adaptations</li> <li>• Deforestation case study (<b>Amazon</b>): <ul style="list-style-type: none"> <li>• Causes (cattle ranching, farming, logging, road building, mining)</li> <li>• Impacts (economic, social, environmental)</li> </ul> </li> <li>• Value of rainforests</li> <li>• Sustainable management of rainforest: (selective logging/replanting, conservation and education, ecotourism, debt reduction, international agreements)</li> </ul>	<ul style="list-style-type: none"> <li>• Location and climate</li> <li>• Characteristics of cold environments</li> <li>• Plant and animal adaptations</li> <li>• Opportunities and challenges (<b>Alaska</b>) <ul style="list-style-type: none"> <li>• Opportunities (mining, energy, fishing, tourism)</li> <li>• Challenges (extreme temperature, inaccessibility, buildings/infrastructure)</li> </ul> </li> <li>• Value of cold environments</li> <li>• Management of cold environments: (use of technology, action by governments, international agreements, conservation groups)</li> </ul>
Physical Landscapes	<b>Coasts</b>	<b>Rivers</b>	
	<ul style="list-style-type: none"> <li>• Constructive and destructive waves</li> <li>• Coastal processes: <ul style="list-style-type: none"> <li>• Types of erosion, weathering and mass movement</li> <li>• Transportation - longshore drift</li> </ul> </li> <li>• Landforms of erosion: <ul style="list-style-type: none"> <li>• Headland and bay/wave cut platform/ cave-arch-stack-stump</li> </ul> </li> <li>• Landforms of deposition <ul style="list-style-type: none"> <li>• Beaches/sand dunes/spits and bars</li> </ul> </li> <li>• Coastal management costs and benefits: <ul style="list-style-type: none"> <li>• Hard engineering (sea wall, rocks armour, gabions and groynes)</li> <li>• Soft engineering (beach nourishment and reprofiling, dune regeneration and managed retreat)</li> <li>• Example: <b>Holderness</b> (why needed, what was done, effects and conflict)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Long and cross profile of a river</li> <li>• River processes: <ul style="list-style-type: none"> <li>• Types of erosion and transportation</li> <li>• Why rivers deposit sediment</li> </ul> </li> <li>• Landforms of erosion: <ul style="list-style-type: none"> <li>• Valleys and interlocking spurs/waterfalls and gorges/meanders and ox-bow lakes</li> </ul> </li> <li>• Landforms of deposition: <ul style="list-style-type: none"> <li>• Levees, floodplains and estuaries</li> </ul> </li> <li>• Flooding: <ul style="list-style-type: none"> <li>• Natural and human causes</li> <li>• Hydrographs for precipitation/discharge</li> </ul> </li> <li>• Flood management: <ul style="list-style-type: none"> <li>• Hard engineering (dams and reservoirs, channel straightening, embankments, flood relief channels)</li> <li>• Soft engineering (flood warning and preparation, floodplain zoning, afforestation, river restoration)</li> <li>• Example: <b>Somerset</b> (why needed, what was done, issues)</li> </ul> </li> </ul>	