


<p><b>Year: 9</b></p> <p><b>Geography</b></p>	<p><b>Curriculum Intent:</b> Taking our three strands of geography: geomorphic, human and synoptic processes, and by building on the prior Key Stage 3 knowledge we extend students understanding of the process that create our unique processes. Operating within ecosystems from the local to the global scale with a particular emphasis on tropical rainforests and hot desert. We aspire to create a sense of awe and wonder, and a sense of place. For example, examining how humans are modifying and managing these changing areas. Within the human geography strands we are helping students to investigate urban issues and challenges both within our country and beyond, as well as how our use of resources varies around the world, time and space. We also cover synoptic elements helping students understand how our modern world impacts on the planet we live on through investigating global issues such as sustainability and climate change.</p>					
<p><b>Unit title:</b></p>	<p><b>Term 1</b></p> <p><b>1Ai) UK Physical Geography</b>  <b>1Aii) Resource management</b>  <b>1B Weather Hazards</b></p>		<p><b>Term 2</b></p> <p><b>2A Climate change</b>  <b>2B The Living world</b></p>		<p><b>Term 3</b></p> <p><b>3A Urban issues and challenges</b>  <b>3B Revision and End of Year test</b></p>	
<p><b>Topic Titles (in order of delivery)</b></p>	<p><b>1Ai UK Physical Geography</b></p> <ol style="list-style-type: none"> <li>1. UK Physical Landscape</li> <li>2. UK Uplands</li> <li>3. UK Lowlands</li> <li>4. UK Climate</li> <li>5. UK Maps</li> <li>6. Assessment</li> </ol> <p><b>1Aii Resource Management</b></p> <ol style="list-style-type: none"> <li>1. Importance of resources</li> <li>2. Global resource inequality</li> <li>3. Resources in the UK: Food</li> <li>4. UK water</li> <li>5. Energy</li> <li>6. Energy security and conflict</li> <li>7 Fracking</li> </ol>	<p><b>1B Weather Hazards</b></p> <ol style="list-style-type: none"> <li>1. 1.Global atmospheric circulation</li> <li>2. Pressure and winds</li> <li>2. Tropical storms</li> <li>3. Extreme weather in the UK</li> <li>4. Somerset Levels</li> <li>5. Extreme weather in the UK</li> <li>6. Revision</li> <li>7. Assessment</li> <li>8. Review of assessment</li> </ol>	<p><b>2A Climate change</b></p> <ol style="list-style-type: none"> <li>1. Evidence climate change</li> <li>2. Causes of climate change</li> <li>3. Effects of climate change</li> <li>4. Mitigation</li> <li>5. Adaptation</li> <li>6. Revision</li> <li>7. Assessment</li> <li>8. Assessment feedback</li> </ol>	<p><b>2B The Living World</b></p> <ol style="list-style-type: none"> <li>1. Ecosystems</li> <li>2. Rainforests</li> <li>3. Deforestation</li> <li>4. Sustainable management</li> <li>5. Hot Desert</li> <li>6. Desertification</li> <li>7. Revision</li> <li>8. Assessment</li> <li>9. Review of assessment</li> </ol>	<p><b>3A Urban issues and Challenges</b></p> <ol style="list-style-type: none"> <li>1. Urban change</li> <li>2. Patterns of and reasons for urbanisation</li> <li>3. Megacities</li> <li>4. Rio de Janeiro – NEE case study</li> <li>5. Favelas</li> <li>6. Urban world – UK</li> <li>7. London HIC case study</li> <li>8. Sustainable urban living.</li> <li>9. Revision</li> <li>10. Assessment</li> <li>11. Review of assessment</li> </ol>	<p><b>3B Fieldwork</b></p> <p>Fieldwork techniques in preparation of a fieldwork trip on sustainable transport in Milton Keynes.</p> <p>Preparation for end of year exams.</p> <p>End of year exams</p>

	<p>8 Increasing energy supply with renewables</p> <p>9 Energy conservation</p> <p>10 Local renewable scheme – Micro hydro -Nepal</p> <p>11 Assessment</p>					
<p><b>Key knowledge / Retrieval topics</b></p>	<p><b>1Ai UK Physical Geography</b> Diversity of UK physical landscapes including river systems &amp; Tees-Exe Line Features of UK Uplands Features of UK Lowlands Igneous, metamorphic and sedimentary rock Photographs: aerial, oblique and satellite Climate vs Weather Air masses Maps: thematic, Miller projection, OS maps, choropleth, topographical, &amp; climatic.</p> <p><b>1Aii Resource Management</b></p>	<p><b>1B Weather Hazards</b>  Global atmospheric circulation helps to determine patterns of weather and climate.  Tropical storms develop as a result of particular physical conditions.  Tropical storms have significant effects on people and the environment.  The UK is affected by a number of weather hazards.  Extreme weather events in the UK</p>	<p><b>2A Climate Change</b>  Climate change is the result of natural and human factors, and has a range of effects.  Managing climate change involves both mitigation (reducing the causes) and adaptation (responding to change).</p>	<p><b>2B The Living World</b>  Ecosystems exist at a range of scales and involve the interaction between biotic and abiotic components.  Tropical rainforests ecosystems have a range of distinctive characteristics.  Deforestation has economic and environmental impacts.  Tropical rainforests need to be managed to be sustainable.  Hot desert ecosystems have a range of distinctive characteristics</p>	<p><b>3A Urban issues and challenges</b>  A growing percentage of the world's population lives in urban areas.  Urban growth creates opportunities and challenges for cities in LICs and NEEs  Urban change in cities in the UK leads to a variety of social, economic and environmental opportunities and challenges.  Urban sustainability requires management</p>	

	Food, water and energy are fundamental to human development. The changing demand and provision of resources in the UK create opportunities and challenges.	have impacts on human activity.		Development of hot desert environments creates opportunities and challenges  Areas on the fringe of hot deserts are at risk of desertification	of resources and transport.	
<b>Understanding / Sequence of delivery</b>	<p><b>1Ai.</b> 1. Overview of the location of major upland/lowland areas and river systems 2. UK upland areas 3. UK lowlands 4. UK climate 5. UK Map skills</p> <p><b>1Aii Resource management</b> 1. The significance of food, water and energy 2. Global inequalities on economic and social well-being. 3. Food – demand, supply, organic and agribusiness 4. Carbon footprints</p>	<p><b>1B Weather Hazards</b></p> <p>General atmospheric circulation model: pressure belts and surface winds.</p> <p>Global distribution of tropical storms.</p> <p>An understanding of the relationship between tropical storms and general atmospheric circulation.</p> <p>Causes of tropical storms and the sequence of their formation and development.</p>	<p><b>2A Climate Change</b></p> <p>How climate change might affect the distribution, frequency and intensity of tropical storms.</p> <p>Primary and secondary effects of tropical storms</p> <p>Long term and immediate responses to tropical storms. Named example of a tropical storm. Monitoring, prediction, protection and planning reduces the effects.</p>	<p><b>2B The Living World</b></p> <p>Example of a small scale UK ecosystem to illustrate the concept of interrelationships within the natural systems.</p> <p>The balance between components - the impact on the ecosystem if one component is changed.</p> <p>An overview of the distribution and characteristics of large scale natural global ecosystems.</p> <p>The physical characteristics of a tropical rainforest.</p> <p>The interdependence of climate, water, soils,</p>	<p><b>3A Urban issues and challenges</b></p> <p>The global pattern of urban change</p> <p>Urban trends in in different parts of the world. Factors affecting the rate of urbanisation</p> <p>The emergence of megacities.</p> <p>Case study of a major city in an LIC or NEE Overview of the distribution of population and the major cities in the UK</p> <p>A case study of a major city in the UK</p>	

<p>5. Water – demand, supply, transfer schemes</p> <p>6. Energy surplus (security) and deficit (insecurity)</p> <p>7. Global distribution of energy consumption and supply.</p> <p>8. Factors affecting energy supply: physical factors, production, technology and political factors.</p> <p>9. Impacts of energy insecurity – exploration of difficult and environmentally sensitive areas, economic and environmental costs, food production, industrial output, potential for conflict</p> <p>Renewable sources of energy</p> <p>Fracking in the UK</p> <p>Energy conservation in housing</p> <p>Case Study: renewable energy scheme</p>	<p>The structure and features of a tropical storm.</p> <p>How climate change might affect the distribution, frequency and intensity of tropical storms.</p> <p>Primary and secondary effects of tropical storms</p> <p>Long term and immediate responses to tropical storms.</p> <p>Named example of a tropical storm. Monitoring, prediction, protection and planning reduces the effects.</p> <p>An overview of the types of weather hazards in the UK.</p> <p>Example of a recent weather hazard in the UK to illustrate: Causes, impacts and how management</p>	<p>An overview of the types of weather hazards in the UK.</p> <p>Example of a recent weather hazard in the UK to illustrate: Causes, impacts and how management strategies can reduce risk. Evidence that weather is becoming more extreme.</p> <p>Evidence for climate change from the beginning of the Quaternary period to present times.</p> <p>Possible causes of climate change.</p> <p>Natural factors</p> <p>Human factors</p> <p>Overview of the effects of climate change on people of the environment.</p> <p>Managing climate change.</p> <p>Mitigation</p> <p>Adaptation</p>	<p>plants, animals and people.</p> <p>Adaptations of plants and animals.</p> <p>Issues related to biodiversity.</p> <p>Changing rates of deforestation</p> <p>A case study of a tropical rainforest to illustrate: Causes of deforestation, impacts of deforestation</p> <p>Value of tropical rainforests to people and the environment.</p> <p>Strategies used to manage the rainforest sustainably.</p> <p>The physical characteristics of a hot desert.</p> <p>The interdependence of climate, water, soils, plants, animals and people.</p> <p>How plants and animals adapt to the physical conditions.</p> <p>Issues related to biodiversity.</p>	<p>An example of an urban regeneration project to show: Reasons why the area needed regeneration. The main features of the project.</p> <p>Features of a sustainable urban living: Water and energy conservation Waste recycling Creating green space</p> <p>How urban transport strategies are used to reduce traffic congestion.</p>	
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