



## Topic Overview

Faculty/Subject: Geography

Year Group: GCSE

Topic: The Challenge of Natural Hazards



<p><b>What BIG IDEAS will you cover in this topic?</b></p> <p><b>Natural hazards are caused by physical processes of the Earth</b></p> <ul style="list-style-type: none"> <li>• Tectonic processes (earthquakes, volcanoes)</li> <li>• Atmospheric processes (tropical storms, extreme weather)</li> <li>• Flooding hazards (river and coastal flooding, landslides)</li> <li>• Human decisions influence hazard risk and vulnerability</li> </ul> <p><b>The impacts of hazards vary between LICs and HICs</b></p> <ul style="list-style-type: none"> <li>• Differences in infrastructure, technology, and emergency response</li> <li>• Primary and secondary impacts</li> </ul> <p><b>Monitoring, prediction, protection, and planning reduce risks</b></p> <ul style="list-style-type: none"> <li>• Strategies to manage hazards and reduce their effects on people and property</li> </ul> <p><b>Climate change affects natural hazard frequency and severity</b></p>	<p><b>What other <u>key concepts, knowledge and skills</u> will you learn in this topic?</b></p> <p><b>Knowledge:</b></p> <ul style="list-style-type: none"> <li>• Types and causes of natural hazards</li> <li>• How hazards affect people and environments differently</li> <li>• Case studies of tectonic and weather hazards (e.g., Haiti 2010 earthquake, Typhoon Haiyan 2013)</li> </ul> <p><b>Skills:</b></p> <ul style="list-style-type: none"> <li>• Interpreting maps, graphs, and hazard data</li> <li>• Explaining patterns and processes</li> <li>• Evaluating management strategies</li> <li>• Comparing impacts between different countries</li> </ul> <p><b>Concepts:</b></p> <ul style="list-style-type: none"> <li>• Risk, vulnerability, resilience</li> <li>• Sustainability in hazard management</li> <li>• Human-environment interaction</li> </ul>
<p><b>What important <u>prior knowledge</u> will you use from your prior learning?</b></p> <p>Students will have learnt about natural hazards within year 8 and 9. They will use their knowledge of their formation, the impacts and the solutions from these topics and build on it.</p> <p><b>Where does this topic fit into the <u>curriculum plan</u> for this subject?</b></p> <p>This is the first topic which students will complete in year 11 and will be the 5th main topic overall.</p>	<p><b>Assessment:</b></p> <p><b>How and when will you be assessed on this topic? What will the success criteria be?</b></p> <p>Students will be assessed through home learnings throughout the topic. Any exam questions completed will be marked and students will be given feedback on this.</p> <p>Students will then be assessed during their November mock on this topic.</p> <p>They should have knowledge of the content covered in the lessons below.</p>
<p><b>What is the key <u>vocabulary</u> that you will need to know in this topic?</b></p> <p>Natural Hazard  Tectonic Hazard  Atmospheric Hazard  Flooding  Earthquake  Volcano  Tropical Storm  Magnitude  Primary Impact  Secondary Impact  Vulnerability  Resilience  Mitigation</p>	<p><b>What is the structure of learning/ lessons in this topic?</b></p> <ol style="list-style-type: none"> <li>1. Plate tectonic theory</li> <li>2. Plate margins</li> <li>3. Location of earthquakes and volcanoes</li> <li>4. Areas of contrasting wealth</li> <li>5. Why people live in tectonic areas</li> <li>6. monitoring , planning, prediction and protection</li> <li>7. Global atmospheric circulation</li> <li>8. Tropical storms</li> <li>9. Structure of tropical storms and climate change</li> <li>10. Effects and responses</li> <li>11. Case study of a tropical storm</li> <li>12. How to reduce the impacts</li> <li>13. UK extreme weather</li> <li>14. UK Weather example</li> <li>15. UK becoming extreme</li> <li>16. Evidence for Climate Change</li> <li>17. Natural Causes</li> <li>18. Human Causes</li> <li>19. Effects on people and environment</li> <li>20. Mitigation</li> <li>21. Adaptation</li> </ol>