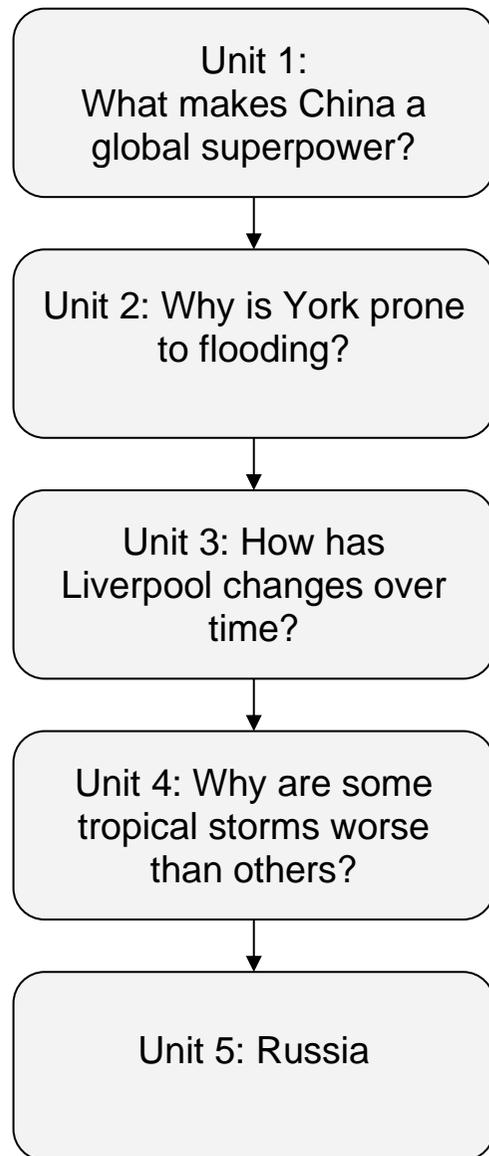


**UNIT TITLE: 9.4 Why are some tropical storms worse than others?**



<p><b>Possible Lesson Breakdown:</b></p> <ol style="list-style-type: none"> <li>1) What are tropical storms?</li> <li>2) How do tropical storms form?</li> <li>3) The structure of tropical storms</li> <li>4) Explaining the formation of tropical storms</li> <li>5) Diagnostic/therapies</li> <li>6) The impacts of tropical storms 1</li> <li>7) The impacts of tropical storms 2</li> <li>8) Why are some impacts worse than others?</li> <li>9) Differences between tropical storms</li> <li>10) Revision lesson</li> <li>11) End of unit assessment</li> </ol>	<p><b>Unit Knowledge: (key terms in bold)</b></p> <ul style="list-style-type: none"> <li>• The location of <b>tropical storms</b> around the world: ocean <b>temperature</b>, <b>Hadley cells</b>, <b>ITCZ</b>).</li> <li>• Causes of tropical storms (ocean temperature, <b>wind shear</b>, <b>low pressure systems</b>, <b>Coriolis effect</b>).</li> <li>• The structure of tropical storms</li> <li>• Definition of <b>primary and secondary impacts</b></li> <li>• The different impacts of tropical storms (strong winds, <b>storm surge</b>, flooding).</li> <li>• Reasons why some tropical storms are worse than others (<b>wealth</b>, <b>population density</b>, size of <b>hazard</b>).</li> <li>• Differences between impacts of tropical storms:             <ul style="list-style-type: none"> <li>○ Hurricane Harvey</li> <li>○ Cyclone Amphan</li> </ul> </li> </ul>	<p><b>Assessment:</b> Lesson 5: Diagnostic and therapies Lesson 11: End of unit assessment</p> <p><b>Literacy Tasks</b> – Personalised feedback given on each Lesson 4: Explaining the formation of tropical storms Lesson 8 : Why are some tropical storms worse than others?</p> <p><b>Skills Coverage</b></p> <ul style="list-style-type: none"> <li>• Using atlas maps on a range of scales</li> <li>• Satellite images</li> <li>• Interpreting data</li> </ul>
<p><b>Tier 2 Vocabulary</b></p> <ul style="list-style-type: none"> <li>• Impacts</li> <li>• Structure</li> <li>• Surge</li> <li>• Pressure</li> <li>• Tropical</li> </ul>		<p><b>Notes</b></p>

## 5 Year Plan Outline



**Notes**  
Students have a good understanding of global climatic factors, this unit helps students link this to other processes that cause the formation of weather systems.  
Students will also apply their prior knowledge of world development to explore the reasons why hazards have different impacts in countries of varying wealth.

<p><b>Key Knowledge Themes:</b> <b>Changing weather and climate:</b> The distribution of tropical storms (latitude/Hadley cells). Causes of tropical storms. <b>Global economic development:</b> Reasons why tropical storms are worse in poor countries. <b>Place knowledge:</b> Hurricane Harvey (South USA), Cyclone Ampham (Bangladesh). <b>A connected world:</b> How people interact with natural processes in different places around the world.</p>
<p><b>Links to Prior Learning:</b> <b>Changing weather and climate:</b> 7.5, 8.1, 8.4 – The different factors that influence climate around the world, how Hadley cells work and the role of high and low pressure on influencing weather patterns. <b>Global economic development:</b> 7.3, 8.3 – the characteristics of countries of differing wealth, development indicators. <b>A connected world:</b> 7.5, 8.3 – Factors that affect world climate, the distribution of wealth worldwide.</p>
<p><b>National Curriculum Links:</b> Physical geography relating to weather and climate. Human geography relating to international development Understand how human and physical processes interact to influence, and change landscapes, environments and the climate.</p>