



Year 8 Topic 3 - Tectonic Hazards 11 Lessons

Aims: This unit of work explores tectonic hazards. Students will understand the global distribution of tectonic hazards and the different types of plate boundaries. They will examine how earthquakes, tsunamis and volcanoes are formed, as well as how these disasters are managed (prediction, preparation, protection). Finally, the impacts and responses of volcanic eruptions will be examined.

Links To KS3 National Curriculum:

Students should develop greater competence in using geographical knowledge, approaches and concepts (such as the theory of plate tectonics) and geographical skills in analysing and interpreting different data sources.

Links to KS4:

Edexcel B, Paper 1 – Topic 1 – Hazardous Earth

Key Skills	Literacy Links:	Numeracy Links:
<ul style="list-style-type: none"> Analyse and communicate with a range of data Interpret a range of sources of geographical information, including maps, diagrams, globes, aerial photographs and Geographical Information Systems (GIS) Communicate geographical information in a variety of ways, including through maps, numerical and quantitative skills and writing at length. Build on their knowledge of globes, maps and atlases Topographical and other thematic mapping, and aerial and satellite photographs Use Geographical Information Systems (GIS) to view, analyse and interpret places and data 	<p>Key words:</p> <ul style="list-style-type: none"> Hazard; boundaries; earthquakes; tsunami; volcano; predicting; preparing; protecting; magnitude; divergent; focus; epicentre; conservative; mantle; crust; lithosphere; asthenosphere; convergent; Mercalli; Richter; 	<p>Map skills, using data and graphs.</p>
Assessment	Cross-Curricular Links	
<p>An exam-style paper, consisting of a mixture of questions ranging in marks from 1 to 4. These will include short answer, multiple choice and interpretation and use of given figures and data.</p>	<ul style="list-style-type: none"> Science Previous topic on Hydro-meteorological hazards 	
	SMSC opportunities and British values	
	<ul style="list-style-type: none"> Opportunities for discussions of the differences and similarities between places and for promoting respect and understanding. 	

Opportunities for further learning

- **Option 1:** Revise Core Facts for the unit from your knowledge organiser
- **Option 2:** SMHW quizzes
- **Option 3:** GCSE Pod (Hazardous Earth – Tectonics)
- **Option 4:** Seneca Learning (KS3 Geography – Earthquakes and Volcanoes)
- **Option 5:** BBC Bitesize KS3 Geography – Natural Hazards (<https://www.bbc.co.uk/bitesize/topics/zn476sg>)