

Subject	Year	Term
Geography AQA	10	Spring term 2/ Summer Term 3
<b>Topic</b>		
The challenge of natural hazards		
<b>Content + skills (Intent)</b>		
<b>Prior Learning (Topic)</b>		
<p><b>KS1/KS2-</b> Volcanoes, earthquakes and Mountains, weather</p> <p><b>KS3 at Balcarras</b> 'Violent Earth' in Year 8 looking at Earthquakes, Volcanoes, Tsunamis 'Weather the Storm' Year 8 looking at Extreme weather, Hurricanes,</p>		
<p>In this topic pupils learn that Natural hazards pose major risks to people and property. Earthquakes, volcanic eruptions and Tropical storms are the result of physical processes. The effects of, and responses to, a tectonic hazard vary between areas of contrasting levels of wealth. Management can reduce the effects of a hazard. The UK is affected by a number of weather hazards. Extreme weather events in the UK have impacts on human activity.</p>		
<b>Future Learning (Topic)</b>		
<p>KS4 at Balcarras- skills across all GCSE topics, Physical landscapes in the UK (Yr 10, flooding) KS5 at Balcarras- Geographical skills across all GCSE topics, Year 12 Hazards (Earthquakes, Volcanoes, wild fires, storms) Cross curricular- Plate tectonics in Science.</p>		
<b>How will knowledge and skills be taught? (Implementation)</b>	<b>How will your understanding be assessed &amp; recorded (Impact)</b>	
<p>An introduction to types of hazard. As we consider each hazard, we look at the cause of the hazard (location, plate setting, climate), then the types of hazards, the impacts and responses. Case studies are used to exemplify this.</p> <p>The first area is tectonic hazards. This begins with plate tectonic theory and then plate margins, earthquakes.</p> <p>The second area is weather hazards, looking at global atmospheric circulation, tropical storms, UK floods and UK extreme weather.</p> <p>Finally we look at climate change; causes, effects and management.</p>	<p>Provide SHORT and FREQUENT re-call tests in a low-stakes environment – mix of formative and summative</p> <p>Pupils will receive a past paper question booklet which covers all previous exam questions available to us. These will be regularly set, marked</p> <p>Continual low-stakes formative testing in lessons through verbal questioning</p> <p>This topic will be covered within the Year 10 and Year 11 formal mock exams - summative feedback.</p>	
<p><b>Misconceptions</b></p> <p><b>People in LIC's are more at risk from hazards</b> The level of impact of a natural hazard depends on the type of hazard, the size, the proximity to people, the vulnerability of people and their capacity to respond. LICs are less able to respond, however the impacts in LICs are not always greater</p> <p><b>Volcanoes are worse than Tropical Storms</b> There are many ways to measure the impact of natural hazards; people injured, death rate, people homeless, cost, responses made. Different hazards have a different scale and different impacts.</p> <p><b>We don't have natural hazards in the UK</b> We do have natural hazards in the UK, mostly flooding, heatwaves and climate change impacts.</p> <p><b>We cant do anything about climate change</b> There are a number of ways to respond to a changing climate, mitigating this occurring in the first place. Adapting to a changing climate.</p>	<p>GCSE record sheet, Progress analysis, data shared in interim reports and formal reports and parents evening.</p>	

## How can parents help at home?

Support with homework and revision techniques for graded assessments. Discuss current affair issues by watching/reading the news. Download the BBC or Guardian news app and set to environmental notifications to receive the most update articles. Watching relevant documentaries e.g. David Attenborough, wildlife/environments.

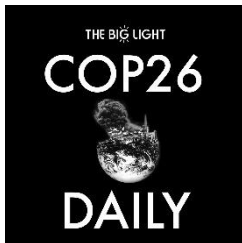
### Places to explore

Pompei or Mount Etna volcano  
Iceland  
The Natural history museum in London (Earth exhibit)

### Watch this

The Impossible (2012) Tsunami in Indonesia film, based on a true story  
Pompei (2014) Historic Volcanic eruption movie  
San Andreas (2015) earthquake movie in California  
The Day after tomorrow (2004) Superstorms effect USA  
2012 the movie (2009) film about Yellowstone eruption

### Listen to these Podcasts



### Check this out

On the VLE check out some of the videos and academic articles on the Natural hazards page  
<https://anchor.fm/revisegcsegeography/episodes/GCSE-Geography---Earthquakes-ekr2fv> podcasts for revision

### Conversation Starters

You can never predict an earthquake  
Which is worse? A Volcano, earthquake or Tropical storm?  
Climate change is inevitable  
The future is green, there will be many ways we can adapt to a changing climate

## Helpful further reading/discussion

<p><b>Reading</b></p> <p><b>Non fiction</b> Krakatoa: The Day the World Exploded: August 27, 1883 by Simon Winchester</p> <p>There Is No Planet B: by Mike Berners-Lee</p> <p>Climate change and the road to NET-ZERO: by Dr Mathew Hampshire-Waugh</p> <p>Net Zero: How We Stop Causing Climate Change by Dieter Helm</p> <p><b>Academic reading</b></p>	<p><b>Vocabulary Lists</b> <i>Speaking like a geographer (Splag)</i> Natural hazard and risk Plate tectonics Plate margins (destructive, constructive and conservative) Volcanic hazards (lava, pyroclastic flow, gas, ash, rock bomb, lahar) Earthquake hazards (seismic waves, epicentre, focus, richter scale) Weather hazards (storm surge, rainfall, wind speed, landslide, floods) Global atmospheric circulation Extreme weather</p>	<p><b>Careers Links</b></p> <p><b>Career as a seismologist</b> <a href="https://www.geolsoc.org.uk/Geology-Career-Pathways/Careers/Career-Profiles/Seismologist-Profile">https://www.geolsoc.org.uk/Geology-Career-Pathways/Careers/Career-Profiles/Seismologist-Profile</a></p> <p><b>Building design and architecture</b> <a href="https://www.youtube.com/watch?v=yJXjCUpzeY">https://www.youtube.com/watch?v=yJXjCUpzeY</a></p> <p><b>Meteorologist</b> <a href="https://nationalcareers.service.gov.uk/job-profiles/meteorologist">https://nationalcareers.service.gov.uk/job-profiles/meteorologist</a></p> <p><b>Hurricane tracking</b> <a href="https://www.mymajors.com/career/hurricane-tracker/">https://www.mymajors.com/career/hurricane-tracker/</a></p> <p><b>Natural disaster response</b> <a href="https://www.environmentalscience.org/career/disaster-management-specialist">https://www.environmentalscience.org/career/disaster-management-specialist</a></p> <p><b>Climate Change Careers</b> <a href="https://unity.edu/careers/climate-change-careers/">https://unity.edu/careers/climate-change-careers/</a></p>
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<b>Fiction</b> Pompeii by Robert Harris		
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