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| **Unit 12 How does tectonics affect our planet?** | **Unit Navigator** |
| In this unit you will investigate Volcanoes and Earthquakes. The aims are as follows:**LG1**: Knowledge**LG2**: Application**LG3**: Skills | Assessment Grades |  | **Key terms:** Core / Mantle / Crust Plate boundary  TsunamiOceanic / Continental plate Subduction  Richter scale Seismometer  Liquefaction Primary / Secondary impacts  |
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| **Theme** | **Learning Goals/Outcomes/Content** |  |  |  |
| What is the internal structure of the Earth? | LG1: Know the names and characteristics of the Earth’s different layersLG3: Develop our powers of description |  |  |  |
| Where do we find Earthquakes and Volcanoes? | LG1: Identify patterns in the location of Earthquakes and VolcanoesLG3: Use coordinates to plot location |  |  |  |
| What are Tectonic plates? | LG3: Create a map of the major Tectonic plates |  |  |  |
| What happens at plate boundaries? | LG1: Understand what happens at Constructive and Destructive plate boundariesLG2: Develop detailed Geographical descriptions |  |  |  |
| What features and hazards do volcanoes have? | LG1: Know the characteristics of Shield and Composite volcanoesLG2: Understand the various hazards volcanoes produce |  |  |  |
| What happens in a volcanic eruption? (casestudy) | LG1: Know the location of our casestudyLG2: Understand the Causes, Impacts and Responses of our volcanic eruption |  |  |  |
| Why live near a volcano? | LG1: Know the benefits offered by living close to volcanoesLG3: Develop our extended writing |  |  |  |
| What are earthquakes and why do they happen? | LG1: Be able to explain why earthquakes happenLG2: understand how earthquakes are measures |  |  |  |
| What happens in an Earthquake? (DEVELOPING country casestudy) | LG1: Know the location and background of our casestudyLG2: Understand the Causes, Impacts and Responses of our Earthquake casestudy |  |  |  |
| How do Earthquakes in DEVELOPED countries compare? | LG1: Understand the Causes, Impacts and Responses of our Earthquake casestudyLG2: Compare the impacts and responses of Earthquakes in Developed and Developing countries |  |  |  |
| How do we PROTECT people against Earthquakes? | LG1: Understand the features needed to make buildings ‘life safe’LG2: Apply our knowledge when designing our own buildings |  |  |  |
| How do we PREPARE people for Earthquakes? | LG1: Know what people do before, during and after the earthquakeLG3: Consider purpose, audience and language when producing information |  |  |  |
| What happens in a Tsunami? | LG1: Understand the cause of a tsunamiLG2: Know the Primary and Secondary impacts of a Tsunami |  |  |  |

Media

Film- San Andreas Read / watch- <https://www.nationalgeographic.com/science/earth/the-dynamic-earth/plate-tectonics/>

**Links:**

LG1: Understanding plate tectonics and their associated hazards it is a key theme at GCSE / A-level.

LG2: Applying understanding of the hazards and opportunities plate tectonics create in developed and developing countries

LG3: Map skills are a key part of Geography and will pop up again in both physical and human geography units.

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