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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  Tsunami  Oceanic / 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 layers  LG3: Develop our powers of description | | |  |  |  |
| Where do we find Earthquakes and Volcanoes? | LG1: Identify patterns in the location of Earthquakes and Volcanoes  LG3: 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 boundaries  LG2: Develop detailed Geographical descriptions | | |  |  |  |
| What features and hazards do volcanoes have? | LG1: Know the characteristics of Shield and Composite volcanoes  LG2: Understand the various hazards volcanoes produce | | |  |  |  |
| What happens in a volcanic eruption? (casestudy) | LG1: Know the location of our casestudy  LG2: Understand the Causes, Impacts and Responses of our volcanic eruption | | |  |  |  |
| Why live near a volcano? | LG1: Know the benefits offered by living close to volcanoes  LG3: Develop our extended writing | | |  |  |  |
| What are earthquakes and why do they happen? | LG1: Be able to explain why earthquakes happen  LG2: understand how earthquakes are measures | | |  |  |  |
| What happens in an Earthquake? (DEVELOPING country casestudy) | LG1: Know the location and background of our casestudy  LG2: 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 casestudy  LG2: 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 earthquake  LG3: Consider purpose, audience and language when producing information | | |  |  |  |
| What happens in a Tsunami? | LG1: Understand the cause of a tsunami  LG2: 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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