**Tectonics**

**Enquiry question 1: Why are some locations more at risk from tectonic hazards?**

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| **Spec Point** | **Article** | **Link** |
| 1.1a | Great interactive map for distribution | <https://www.geolsoc.org.uk/Plate-Tectonics/> |
|  |  | <https://www.geolsoc.org.uk/Plate-Tectonics/Chap3-Plate-Margins> |
| 1.1b | **Geofactsheet 133**- Why do some places suffer more than others | [133 Earthquake](https://geographyalevelslc.files.wordpress.com/2013/07/a133-earthquake.pdf) |
|  | **Geofile 477**: Geological slant on plates | <http://www.explorevolcanoes.com/GF477.pdf> |
|  | **Geofile 554:** Two plate boundaries: The Himalayas and Pacific USA | <https://www.queenelizabeths.derbyshire.sch.uk/PDF/sixthform/work-2018/Geography%20-%20Plate%20boundaries.pdf> |
|  | **GeolSoc website:** Great explanation for plate margins | <https://www.geolsoc.org.uk/Plate-Tectonics/Chap3-Plate-Margins/Mid-plate/Hawaiian-Islands> |
| 1.1c | **Geofile 477**: Geological slant on plates | <http://www.explorevolcanoes.com/GF477.pdf> |
|  | ypes of volcanic eruptionsT | <http://www.geologypage.com/2015/03/types-of-volcanic-eruptions.html#ixzz5JeVOcoQW> |
|  | **GeolSoc website:** Great explanation for Island chains | <https://www.geolsoc.org.uk/Plate-Tectonics/Chap3-Plate-Margins/Mid-plate/Hawaiian-Islands> |
| 1.2a | **Geofile 477**: Geological slant on plates | <http://www.explorevolcanoes.com/GF477.pdf> |
|  | Geologists May Have Just Discovered A New Layer Of Earth's Mantle | <https://www.huffingtonpost.co.uk/entry/new-layer-earth-mantle_n_6926730?guccounter=1> |
| 1.2b | Volcanic arcs form by deep melting of rock mixtures | <https://phys.org/news/2017-04-volcanic-arcs-deep-mixtures.html> |
|  | **Geofile 638**: Ocean ridges and Rift valleys | [Geofile](https://pmt.physicsandmathstutor.com/download/Geography/A-level/Notes/OCR/Glaciated-Landscapes/Ocean%20Ridges%20Rift%20Valleys.pdf) |
|  | **Geofile 554:** Two plate boundaries: The Himalayas and Pacific USA | <https://www.queenelizabeths.derbyshire.sch.uk/PDF/sixthform/work-2018/Geography%20-%20Plate%20boundaries.pdf> |
| 1.2c | **Geofactsheet 164**- Volcanoes: Why are some more hazardous than others? | <https://geographyalevelslc.files.wordpress.com/2013/07/164-volcanoes.pdf> |
|  | Types of volcanic eruptions | <http://www.geologypage.com/2015/03/types-of-volcanic-eruptions.html#ixzz5JeVOcoQW> |
| 1.3a | Warnings Abounded Before Massive Alaska Landslide and Tsunami (2018) | <https://www.livescience.com/63527-massive-alaska-landslide-tsunami-warnings.html?utm_source=twitter&utm_medium=social> |
|  | Japan hit by deadly earthquake and mudslides (Sep 18) | <https://www.bbc.co.uk/news/world-asia-45429673> |
| 1.3b | Fuego Volcano - the deadly pyroclastic flows that have killed dozens in Guatemala | <http://theconversation.com/fuego-volcano-the-deadly-pyroclastic-flows-that-have-killed-dozens-in-guatemala-97707> |
|  | GeoFactsheet 264: An inconvenient plume: The eruption of eyjafjallajokull, Iceland | <https://www.crawshawacademy.org.uk/Academic-Calendar-2018-19/Post_16_Bridging_tasks/Geography_264_volcano_A_Level.pdf> |
|  | Types of volcanic eruptions | <http://www.geologypage.com/2015/03/types-of-volcanic-eruptions.html#ixzz5JeVOcoQW> |
| 1.3c | **Geofactsheet 179:** Tsunamis- rare but devastating | <http://geography-groby.weebly.com/uploads/4/3/3/7/43370205/179_tsunamis.pdf> |
|  | Interactive Map: **Estimated Tsunami Travel Times to Coastal Locations** | <https://maps.ngdc.noaa.gov/viewers/ttt_coastal_locations/> |
|  | Great website: Tsunami alarm system | <https://www.tsunami-alarm-system.com/en/content/tsunami-vorkommen> |

**Enquiry question 2: Why do some tectonic hazards develop into disasters?**

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| **Spec Point** | **Article** | **Link** |
| 1.4A | **Geofile 672**- The Haiti Earthquake 2010- a study of vulnerability | <https://mrgeogwagg.files.wordpress.com/2017/02/haiti-earthquake-2010.pdf> |
|  | Understanding Disaster Risk (World Bank) | <http://www.worldbank.org/en/news/video/2016/05/10/understanding-disaster-risk> |
|  | Disaster Risk and Vulnerability: The Role and Impact of Population and Society | <https://www.prb.org/disaster-risk/> |
| 1.4C | Mount Agung: Bali tourism hit by eruption threat (2017) | <https://www.bbc.co.uk/news/business-42133005> |
|  | Greece earthquake hits Lesbos: Tremors felt in Istanbul and Athens (2017) | <https://www.bbc.co.uk/news/world-europe-40251100> |
|  | **Geo Factsheet 264**: An inconvenient plume: The eruption of eyjafjallajokull, Iceland | <https://www.crawshawacademy.org.uk/Academic-Calendar-2018-19/Post_16_Bridging_tasks/Geography_264_volcano_A_Level.pdf> |
|  | **Town where nobody's home: Fukushima communities struggling to survive (2018)** | <https://www.theguardian.com/environment/2018/mar/09/fukushima-communities-struggling> |
| 1.5C | 4.4-magnitude earthquake hits UK with epicentre eight miles outside Swansea | <https://www.independent.co.uk/news/uk/home-news/swansea-earthquake-south-west-england-wales-a8215521.html> |
|  | 5.1 magnitude earthquake jolts Nepal | <https://timesofindia.indiatimes.com/india/5-1-magnitude-earthquake-jolts-nepal/articleshow/59409811.cms> |
| 1.6A | **Geofile 672**- The Haiti Earthquake 2010- a study of vulnerability | <https://mrgeogwagg.files.wordpress.com/2017/02/haiti-earthquake-2010.pdf> |
| 1.6B | **Geofactsheet 133**- Why do some places suffer more than others | <https://geographyalevelslc.files.wordpress.com/2013/07/a133-earthquake.pdf> |
| 1.6C | **Geofile 672**- The Haiti Earthquake 2010- a study of vulnerability | <https://mrgeogwagg.files.wordpress.com/2017/02/haiti-earthquake-2010.pdf> |
|  | **Geofile 654**: Japan 2011: Earthquake, tsunami, nuclear crisis | <http://pmt.physicsandmathstutor.com/download/Geography/A-level/Notes/AQA/Hazards/Japan%20Study.pdf> |
|  | **Geofile 510:** The Asian tsunami, 26 December 2004 | <https://geographyalevelslc.files.wordpress.com/2012/05/asian-tsunami-2004.pdf> |

**Enquiry question 3: How successful is the management of tectonic hazards and disasters?**

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| **Spec Point** | **Article** | **Link** |
| 1.7A | Global increase of hazards (GRAPH) | <https://ourworldindata.org/natural-catastrophes> |
|  | EMDAt website | <https://www.emdat.be/index.php> |
| 1.7B | 2011 Japan Earthquake - Tsunami Fast Facts (2018) | <https://edition.cnn.com/2013/07/17/world/asia/japan-earthquake---tsunami-fast-facts/> |
|  | **Geofile 654**: Japan 2011: Earthquake, tsunami, nuclear crisis | <http://pmt.physicsandmathstutor.com/download/Geography/A-level/Notes/AQA/Hazards/Japan%20Study.pdf> |
|  | **Geofile 510:** The Asian tsunami, 26 December 2004 | [https://geographyalevelslc.files.wordpress.com/2012/05/asian-tsunami-2004.pd](https://geographyalevelslc.files.wordpress.com/2012/05/asian-tsunami-2004.pdf) |
| 1.7C | L’Aquila - 10 years on | <https://www.theguardian.com/world/2019/apr/07/george-clooney-laquila-italy-earthquake-restoration> |
|  | Philippines - multiple hazard zone | <https://www.dw.com/en/philippines-a-country-prone-to-natural-disasters/a-17217404> |
| 1.8A | Earthquakes: prediction, forecasting and mitigation (Geolsoc) | <https://www.geolsoc.org.uk/earthquake-briefing> |
|  | PODCAST: Can smartphone technology help geographers to monitor volcanic gases emissions? | <https://itunes.apple.com/gb/podcast/rgs-ibg-ask-the-experts/id1196746426?mt=2> |
|  | PODCAST: How do we predict earthquakes? | <https://itunes.apple.com/gb/podcast/rgs-ibg-ask-the-experts/id1196746426?mt=2> |
|  | Earthquakes Can Happen in More Places Than You Think | <https://news.nationalgeographic.com/2017/08/earthquake-fault-quakeland-kathryn-miles/> |
| 1.8B | Where the 'Ring of Fire' could ignite in 2018: Researchers reveal the six volcanoes most at risk of eruption | <http://www.dailymail.co.uk/sciencetech/article-5221379/Where-Ring-Fire-ignite-2018.html> |
| 1.9B | U.N. Indonesia earthquake plan foresees 47 million affected, 10,000 dead (2018) | <https://www.reuters.com/article/us-indonesia-quake-planning/u-n-indonesia-earthquake-plan-foresees-47-million-affected-10000-dead-idUSKBN1F117A?il=0> |
| 1.9C | The key role of NGOs in bringing disaster relief in Nepal (2015) | <http://theconversation.com/the-key-role-of-ngos-in-bringing-disaster-relief-in-nepal-40883> |