

## Year 12 Geography Transition Work



### Physical Geography – Tectonic Processes and Hazards

1. Complete the glossary of key terms on page 2-4.
2. Research and compile **three** detailed case studies looking at tectonic hazards. You should look at a case study of an **earthquake event, volcanic eruption** and a **tsunami event**. These must be different to examples that you have studied at GCSE and should have occurred within the **last 10 years**. You should look at countries at different levels of economic development i.e. **at least one** should be from a **developing country** and **at least one** should be from a **developed country**.

You should gather together information on the following:

- The **cause** of the event e.g. plate boundary, names and types of plates, tectonic processes.
- The **hazards** associated with this event e.g. lava, pyroclastic flows, liquefaction, landslides.
- The **specific effects** of the tectonic event e.g. social, economic, environmental, short and long term.
- **Management strategies** used to reduce the impacts e.g. earthquake proof structures, education and planning, monitoring.

We would encourage you to incorporate maps, photos and diagrams into your work and each case study should be **at least a page of typed work** (excluding visuals).

**Glossary for tectonic processes and hazards**

<b>Term</b>	<b>Definition</b>
<i>Asthenosphere</i>	
<i>Ash</i>	
<i>Benioff zone</i>	
<i>Bomb (lava)</i>	
<i>Collision zone</i>	
<i>Cone</i>	
<i>Conservative margin</i>	
<i>Constructive margin</i>	
<i>Continental drift</i>	
<i>Core</i>	
<i>Crater</i>	
<i>Crust</i>	
<i>Destructive margin</i>	
<i>Epicentre</i>	

<i>Fault</i>	
<i>Focus</i>	
<i>Fold mountain</i>	
<i>Hot spot</i>	
<i>Hypocentre</i>	
<i>Island arc</i>	
<i>Jokulhlaup</i>	
<i>Intra-plate</i>	
<i>Lahars</i>	
<i>Lava</i>	
<i>Liquefaction</i>	
<i>Lithosphere</i>	
<i>Lithospheric plate</i>	
<i>Love wave</i>	
<i>Magma</i>	

<i>Mantle</i>	
<i>Nuée ardente</i>	
<i>Oceanic trench</i>	
<i>Palaeomagnetism</i>	
<i>Primary wave</i>	
<i>Pyroclastic material</i>	
<i>Rayleigh wave</i>	
<i>Rift valley</i>	
<i>Sea-floor spreading</i>	
<i>Secondary waves</i>	
<i>Subduction</i>	
<i>Tsunami</i>	
<i>Alfred Wegener</i>	