**Year 12 Transition Work for Topic 1 – Tectonic Processes and Hazards**

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| **Task A** | Tick when completed |
| 1. Research and print off an A4 map to show the location of plates and plate boundaries around the world. Ensure there is room around the outside of your map to add labels. |  |
| 2. Label your map with the names of the different plates. |  |
| 3. Draw or print off the block diagrams to show the 4 different types of plate boundaries **(divergent, convergent, conservative and collision)**. Highlight the locations of the different types of plate boundaries on your map. |  |
| 4. Annotate your diagrams with key geographical terms and have annotated explanations of the key features (e.g. landforms) and hazards (earthquakes, volcanoes, tsunamis) that occur at or near the plate boundary. |  |
| 5. Research and print off an A4 map to show the global distribution (location) of earthquakes, volcanoes and tsunamis around the world. |  |
| 6. Around the outside of your map, describe the global distribution of earthquakes, volcanoes and tsunamis. |  |

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| **Task B**  Research and produce an A4 fact sheet case study of a tectonic hazard. Your chosen case study will be based on the first letter of your surname. See the table below. |  |
| Tick when completed |
| **Date** - when did the hazard occur? |  |
| **Location** - where did the hazard take place? |  |
| **Causes -** why did the hazard happen? |  |
| **Hazards** - what were the primary and secondary hazards? |  |
| **Impacts** - what were the social, political, economic and environmental impacts? |  |
| **Management** - what were the immediate and long term responses to the hazard?  *Additional information such as photos and maps could also be included.* |  |

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| Surname | **Earthquakes:** | Surname | **Volcanoes** |
| A – B | 1989, San Francisco | O | 1980, Mt St Helens |
| C | 2005, Pakistan | P | 1991, Mount Pinatubo |
| D | 2008, Sichuan (China) | Q-R | 1995, Montserrat |
| E - F | 2010, Haiti | S | 2011, Eyafjallajokull (Iceland |
| G - H | 2011, Christchurch (New Zealand | U-V | 2017, Mount Etna |
| I - J | 2011, Eastern Japan |  | Tsunamis. |
| K - L | 2013, Philippines | W | 2004, Indian Ocean tsunami |
| M- N | 2015, Nepal | Y-Z | 2011, Tohoku Tsunami (Japan) |

**Task C**

Make a glossary of the following key words and terms:

*Don’t cut and paste definitions. Read them, understand them and the write them out in your own words.*

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|  | Tick when completed |  | Tick when completed |  | Tick when completed |
| Earthquake |  | Secondary Hazards |  | Continental Drift |  |
| Volcano |  | Liquefaction |  | Wegener |  |
| Tsunami |  | Landslides |  | Pangea |  |
| Plate |  | Lava Flows |  | Sea Floor Spreading |  |
| Plate Boundary |  | Pyroclastic Flows |  | Convection Currents |  |
| Convergent Margin |  | Volcanic Ash |  | Subduction |  |
| Divergent Margin |  | Palaeomagnetism |  | Subduction Zone |  |
| Conservative Margin |  | Basalt |  | Oceanic Trench |  |
| Transform Margin |  | Lithosphere |  | Mid-Atlantic Ridge |  |
| Collision Zone |  | Asthenosphere |  | Jökulhlaup |  |
| Continental Crust |  | Seismic Waves |  | Hot Spots |  |
| Oceanic Crust |  | Seabed Displacement |  | Mantle Plumes |  |
| Water Column Displacement |  | Sub-marine Earthquakes |  | Intra-plate  Earthquakes |  |
| Core |  | Ridge Push |  | Magnitude |  |
| Focal Depth |  | Mantle |  | Lahars |  |
| Benioff Zone |  | Crustal Fracturing |  | Slab Pull |  |