

Geography
summer
homework
2019

When you start in September you will begin with the first topic, *Tectonic Processes and Hazards*. As a preparation for this subject, the following activities will help you revise what you already know and start to build your knowledge.

ALL tasks must be completed and handed in for your first Geography lesson in September.

Task 1: Tectonic processes revision

- 1. Define the following terms and give examples:
 - a. Tectonic activity
 - b. Hazard
- 2. Using the following pages and complete the following:
 - a. Draw one **detailed** diagram of **each** the 4 different plate boundaries that create tectonic activity on the pages below.
 - b. Annotate each diagram in detail to explain the hazards that are created at each boundary e.g. volcanos / earthquakes
 - c. Give an example for each plate boundary.

Remember to list the sources that you use. Good internet sites are:

- https://volcanoes.usgs.gov/index.html
- https://earthquake.usgs.gov/earthquakes/
- https://www.geolsoc.org.uk/Plate-Tectonics
- https://www.bbc.co.uk/programmes/p03qqxwl
- 3. After you have completed all 4 diagrams, state which plate boundary you consider to be *the most dangerous* and give reasons for your answer.

Plate boundary 1:

Plate boundary 2

Plate boundary 3

Plate boundary 4

Task 2: Data analysis

The following two diagrams are the hazard profiles for two different primary tectonic hazard types i.e. volcanoes and earthquakes

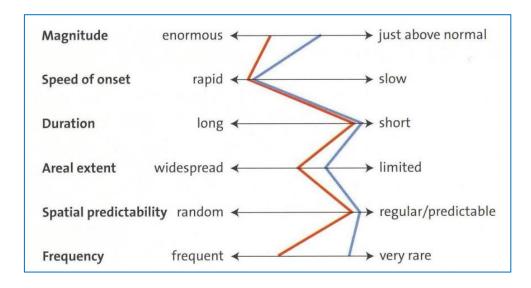


Fig. 1 Hazard type 1

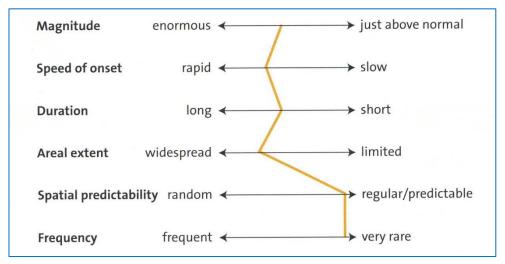


Fig .2 Hazard type 2

- 1. Explain what each of the criteria are that describe the hazard profile.
- Magnitude
- Speed of onset
- Duration

•	Areal extent
•	Spatial predictability
•	Frequency
2.	Describe what type of hazard is shown in each profile and explain your reasoning.