

A Level Geography

Please complete the below work in preparation for your start at Franklin this September. This work should be brought with you to enrolment and your first day at Franklin.

If you aren't attending enrolment on site please just bring this when you first come to the college in September.

This should be completed in time for enrolment, work can be in a written or electronic format.

Any questions please contact our admissions department – admissions@franklin.ac.uk

In order to help you make the best possible start to your studies at Franklin, we have put together some bridging work that you will need to complete before you enrol. Doing your best in this work will ensure you make the most of the early weeks, which we know are really important in getting the best you can from your studies. This work must be completed to the best of your ability and handed in at your enrolment. In a sense, this is your first piece of homework and it is important to note that it will be your first piece of assessed work, it is therefore a requirement of enrolling on to your study programme.

Tectonic Hazards

Why volcanoes vary.

The work we have looked at so far has shown that there is a lot of variation in the size, shape, explosivity, products and danger associated with volcanoes.

This lesson looks at why that is the case and examines what causes the differences between different volcanoes.

1. Find a **world map** that shows the global distribution of volcanoes. You need to produce a world map.
2. Use the resources listed to find out the **difference between** volcanoes produced at **convergent and divergent** plate boundaries. Approx. **250 words** to explain the difference between the different plate boundaries – please **add an appropriate image**.
3. **Create a table** to explain what each of the following volcanic products **is and how it is formed** – aa lava, pahoehoe lava, pyroclastic flows, ash falls and gas eruptions. A **table** with three columns titled – product, what it is, how it is formed and five rows.
4. In addition, research the following secondary volcanic hazards – **lahars and jökulhlaup**. Explain what they are and how they form. Provide **named examples**. Paragraph/s of **approx. 250 words** to explain what a lahar and jökulhlaup are and give examples. Add images.
5. Research the details of the eruptions of the following volcanoes – Mount St Helen's 1980 **OR** Mount Pinatubo 1991 **AND** Kilauea 2019. Explain the **sequence of events** that led to the eruption, **the materials erupted** from the volcanoes and the **impact** they had. **Illustrate** your work with a **location map** and **images of the eruptions** and **aftermath** of the events. Approximately **one side of A4 case study**, map and images of the two eruptions of your choice.

Online Research:

You can use any source of information you like but here are some links to get you started.

Glossary of terms: <https://volcanoes.usgs.gov/vsc/glossary/>

Lava flows: https://volcanoes.usgs.gov/vhp/lava_flows.html

Volcanic hazards: <https://volcanoes.usgs.gov/vhp/hazards.html>

Lava types: https://timeforgeography.co.uk/videos_list/plate-tectonics/volcanoes-different-types-and-characteristics/

Volcanic eruptions: https://timeforgeography.co.uk/videos_list/plate-tectonics/size-volcanic-eruptions/

Researching volcanoes: <https://www.rgs.org/schools/teaching-resources/hazards-and-volcanic-gas-emissions/>

Other Resources:



Volcanoes_whay_are_
some_more_hazardou

Extension Task

To discover more and extend your understanding of the workings of volcanoes, watch these videos and produce notes to summarise what they show.

Kilauea video - https://volcanoes.usgs.gov/volcanoes/kilauea/multimedia_videos.html

Mount Baker - https://volcanoes.usgs.gov/volcanoes/baker/multimedia_videos.html

MOOCS

MOOCs are Massive Open On-line Courses

You might enrol and complete the following: Extreme Geological Events.

<https://www.futurelearn.com/courses/extreme-geological-events>