

Sets (s): All Y12 classes.

YEAR 12

LP 2b

SUBJECT Geography

Knowledge Focus: Tectonic Landscapes (Unit 1).



Ysgol Uwchradd
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High School

This half term : Skills, Knowledge and understanding to be developed:

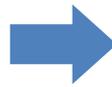
- 1.3.3 Earthquakes, processes, hazards and their impacts.
- 1.3.4 Human factors affecting risk and vulnerability.
- 1.3.5 Responses to tectonic hazards.

Key Terms to be learned this half term:

Magnitude. Mercalli scale. Richter scale. Volcanic Explosively Index. Shield volcano. Cinder volcano. Composite volcano. Explosive / effusive. Pyroclastic flow. Tephra. Lava flow. Ash fall. Lahars. Jökulhlaup. Volcanic landslide. Liquefaction. Landslides / mudflows. Vulnerability. Focus. Depth of focus. Epicentre. Ground shaking. Seismic waves. Liquefaction. Landslides / mudflows. Vulnerability. Mitigate. Rehabilitation. Reconstruction.

Week 1 and 2 Learning Objectives etc:

- Outline earthquake processes and the production of associated hazards including ground shaking, liquefaction and landslides.
- Categorise and summarise demographic, economic and social impacts of earthquake activity on people and the built environment including primary and secondary effects.
- Describe and explain the local, regional and global scale impacts of earthquake activity.
- Use a located example of one earthquake to demonstrate the varied degree of risk and impacts of earthquake activity.



Objective assessments:

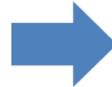
What happens during an earthquake?
What are the primary and secondary effects of earthquake activity?

Homework:

Research the Kashmir earthquake

Week 3 and 4 Learning Objectives etc:

- Outline how the following affect earthquake impacts, risk and vulnerability.
 - (i) economic factors including level of development and level of technology
 - (ii) social factors including the population density, population profile (age, gender) and levels of education.
 - (iii) political factors including the quality of governance.
 - (iv) geographical factors including rural / urban location, time of day and degree of isolation.



Objective assessments:

What are the human factors affecting earthquake impacts, risk and vulnerability?

Homework:

Explain the human factors that affected
a) the impact,
b) risk and
c) vulnerability during the Kashmir Earthquake.

Week 5 and 6 Learning Objectives etc:

- Understand and explain different monitoring, predicting and warnings of volcanic eruptions and earthquakes. Strategies can be divided into those that attempt to predict and warn populations about the event, those that attempt to mitigate the impacts, and those that respond to the event.
- Outline short-term and long-term responses to the effects of earthquake and volcanic hazards (the hazard management cycle).



Objective assessments:

How and why do responses to tectonic hazards differ?

Homework:

1. Past Question: How are volcanic hazards monitored?
2. Revision for SA on volcanic and earthquake hazards.

Week 7 Learning Objectives etc:

SA: Past question on volcanoes or earthquake hazards & effects.

- Pull together the 'specialised concepts' and case study examples including inequality (linked to vulnerability and responses), interdependence (linked to aid), mitigation and adaptation (linked to responses to hazards), resilience (linked to strengthening strategies), risk (linked to vulnerability and turning hazards into disasters) and systems (with the cycle of tectonic renewal) covered in this unit to demonstrate a synoptic understanding of the tectonics changing landscapes unit.



Objective assessments:

How do factors work together to affect tectonic vulnerability, risk and impacts?

SA: past question on volcanoes or earthquake hazards and effects.

Homework:

1. How can the effects of an earthquake be mitigated?
2. Revise for Unit 1 mock exam in January.