



# Canarygeog Worksheet

## Pl. Tectonics – Case Studies

### Answers

1. For an area of fold mountains you have studied, describe the economic activities that take place.

A good example would be the Himalayas, remember you must give full details of its location :

The name of the mountain range : The Himalayas.

The location of the mountain range : Asia, you can give more details by mentioning the countries where it's located : China, Nepal and Bhutan mainly.

Economic activities are divided into three parts : farming, mining and tourism.

Farming : mostly pastoral basically rice and vegetable crops. There are also a number of animals including cows and buffalos which are used for milk and meat as well as for use on the farms pulling carts or ploughing, the manure from these animals is also used as fertilizers. Due to the steepness of the area the ground is stepped into terraces.

Mining : in this area we can find diamonds, gold and copper. These are all mined using open-cast mines, these create a lot of pollution specially in the water.

Tourism : One of the greatest sources of income in the area, it received about 1 million visitors a year. They are attracted by the landscapes and the Buddhist temples.

Remember that the lack of details will not give you the highest marks.

2. For an area you have studied describe the primary and secondary effects of an earthquake.

Remember here you can choose if its an LEDC or an MEDC

Example chosen : Kashmir Earthquake, 8<sup>th</sup> of October 2005, Pakistan.

Primary effects : the earthquake lasted 1 minute (60 seconds), buildings collapsed, windows shattered, signs and light posts fell down, furniture and objects fell over, roads and bridges cracked or collapsed. 79.000 people died aprox. More than 100.000 people were injured more than 3 million homes were destroyed. Schools and hospitals collapsed killing the students and patients.

Secondary : gas pipes and electricity lines breaking caused fires, sewage water polluted the clean water causing diseases and the decomposing bodies caused many different diseases. People trapped in water suffered hypothermia.

Remember that the lack of details will not give you the highest marks.

3. For an earthquake you have studied explain how the earthquake happened.

Remember you can choose any earthquake in an LEDC or MEDC.

Example chosen : San Francisco.

Detailed location : San Francisco is in the USA on the San Andreas Fault.

It is a conservative plate boundary. Located between the North American Plate and the Pacific Plate.

Here the plates are sliding past each other, there is a lot of friction between the two plates which causes the earthquakes..

Remember that the lack of details will not give you the highest marks.

4. For an earthquake you have studied, explain 3 ways in which it affected the people or their environment.

Remember you can choose any earthquake in an LEDC or MEDC.

Once you have chosen the example talk about :

The loss of life through buildings collapsing or objects falling down.

Number of people injured specially from falling items.

Loss of belongings, cars, etc crushed in the buildings or burnt in the numerous fires.

Loss of jobs and homes.

Change in the culture due to a higher awareness of the danger.

Remember that the lack of details will not give you the highest marks.

5. For a volcanic eruption you have studied suggest why tourists visit this area. Include details on how this tourism contributes to the economy of the area,

Remember you can choose any volcanic eruption in an LEDC or MEDC, remember that tourism has changed over the years so make sure you relate the answers to the time period when it occurred.

Example chosen : Mount Fuji.

Mount Fuji is a dormant volcano, the last eruption which occurred there was in 1708 and it is a composite volcano.

200.000 people aprox. Climb this mountain every year.

The views from the top specially at sunrise make it a very popular tourist attraction.

It is a sacred mountain in the ancient Japanese culture.

More than 250.000 people depend on this tourist industry.

You should give details pm the different types of jobs related to this natural area.

Remember that the lack of details will not give you the highest marks.

6. For a volcanic eruption you have studied in an LEDC explain the effects of the eruption (don't forget to talk about the effects on people, environment and economy.)

Remember you can choose any eruption which has taken place in an LEDC.

Remember to give details as to where it is and when it happened.

Example chosen : Montserrat, an island in the Caribbean.

It's a destructive plate boundary with the South American Plate being subducted under the Caribbean Plate.

Effect on People : evacuation of houses, loss of jobs, people having to stay in temporary camps, some people left the island and starting a new life in another place, some families are broken up.

Effect on the environment : half the island has been covered in ash, there is a high concentration of air pollution from the gases and ash.

Effects on the economy ; the tourist industry has been affected as there are less tourists, many people have lost their farmland and also lost the income from their crops.

Properties and businesses have been lost. Many jobs have been lost.

Remember that the lack of details will not give you the highest marks.

7. For a volcanic eruption you have studied in an MEDC explain the short-term and long-term effects of this eruption.

Remember you can choose any eruption which has taken place in an LEDC.

Remember to give details as to where it is and when it happened.

Example chosen : Mt. St. Helens USA

Short Term effect :

Pyroclastic flow travelling at about 300 km/hr.

Trees were flattened and burnt over and area of over 350 km<sup>2</sup>

More than 7500 animals killed

More than 12 million salmon were killed in a fish farm.

57 people killed.

Melted snow causes mudflows travelling at 35 m/sec.

The ash cloud was 24 km high forcing planes to divert.

There was a 15cm. layer of ash on the roads.

Long Term effects :

More than 900 billion dollars were needed to rebuild the industry and compensate the people.

The volcano has attracted numerous tourist improving the local economy.

There is an increased risk of flooding due to the new landscape.