A picture containing building

Description automatically generated

Tectonics

The challenge of

natural hazards

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# Using this booklet

Welcome to the Internet Geography Work Booklet for the challenge of natural hazards. There are a range of resources on Internet Geography to support you studying this unit. Head over to <https://www.internetgeography.net/aqa-gcse-geography/the-challenge-of-natural-hazards/> to access them.

As well as the resources in this booklet, there are a number of online quizzes to check your learning as you work your way through this booklet.

 This icon lets you know when you should attempt the online quizzes developed to support your learning and check your knowledge. Your scores should be recorded on the tracking table at the back of this booklet. It is useful to revisit the quizzes to help your learning stick.

QR codes are included throughout the booklet to support you in researching the information you need to complete the activities. You will need to download a free QR code scanner to your mobile phone or tablet. Just go to your app store and search for “QR Code scanner” and download a free one.

After each section in this booklet there is a summary page for you to record the main points for each sub-topic. We recommend you use dual coding for this. Dual coding sounds a bit complicated, however, it’s not. It simply involves combining text and images when you are studying. There are many ways you can present text and images, such as with infographics, timelines, cartoon strips, diagrams, and graphic organisers. We’ve pulled together a guide to help you do this with examples on Internet Geography. Either go to <https://www.internetgeography.net/dual-coding/> or scan the QR code below.



# Introduction to natural hazards

There are a number of key words you need to know about natural hazards.

Complete the key terms list below by adding the correct definitions.

|  |  |
| --- | --- |
| **Natural hazard** |  |
| **Hazard risk** |  |
| **HIC** |  |
| **LIC** |  |
| **NEE** |  |
| **Tectonic hazards** |  |
| **Atmospheric hazards** |  |
| **Earthquake** |  |
| **Volcano** |  |
| **Subduction zone** |  |
|  |  |
|  |  |
|  |  |



## Check your learning

Head over to www.internetgeography.net/wb60 and complete the key word quiz. Add your score for quiz 1 on the recording sheet.

# Natural hazards

If humans did not live on Earth, would an earthquake be a natural hazard?   
Explain your answer.

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Complete the table below to explain the factors that affect hazard risk.

|  |  |
| --- | --- |
| Factors affecting hazard risk | Hazard risk is affected because… |
| Population increase |  |
| Urbanisation |  |
| Economic development |  |
| Geographical location |  |
| Increase in the frequency and magnitude of a natural hazard |  |



## Check your learning

Head over to www.internetgeography.net/wb61 and complete the quiz. Add your score for quiz 2 on the recording sheet.

## Dual coding

Use dual coding to summarise what you have studied in this section. Take a look at <https://www.internetgeography.net/dual-coding/>

# A black sign with white text Description automatically generatedEarthquakes and Volcanoes

Annotate the diagram below to describe the structure of the Earth.

A picture containing transport, aircraft, balloon

Description automatically generated

What is the lithosphere?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Complete the table below to compare the characteristics of oceanic and continental plates.

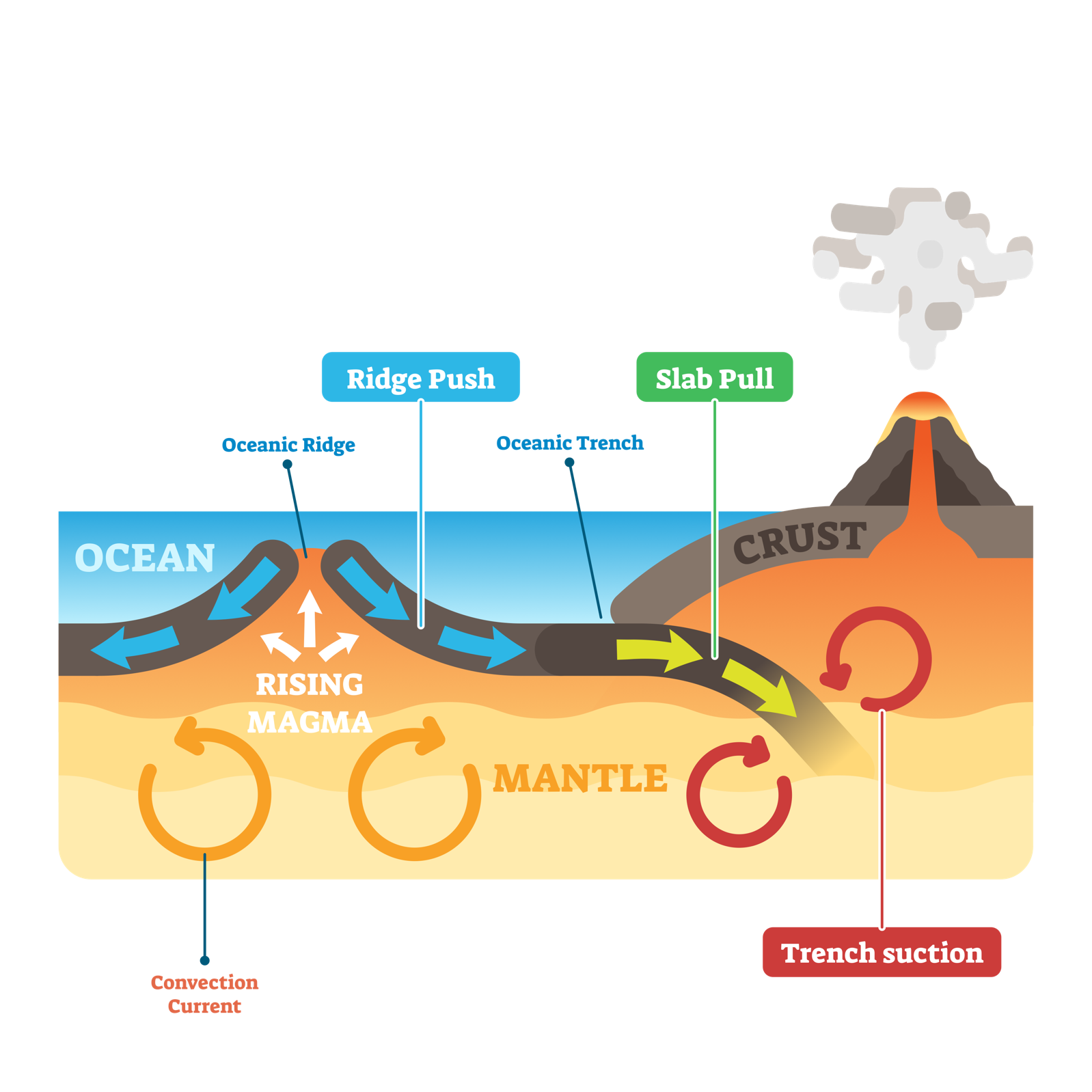
|  |  |  |
| --- | --- | --- |
| **Characteristics** | **Oceanic Plate** | **Continental Plate** |
| Density |  |  |
| Thickness |  |  |
| Geology |  |  |
| Age |  |  |



## Check your learning

Head over to www.internetgeography.net/wb62 and complete the quiz. Add your score for quiz 3 on the recording sheet.

Annotate the diagram to explain the causes of tectonic plate movement (convection   
currents, ridge push and slab pull).



A picture containing object

Description automatically generated

Describe the global distribution of earthquakes and volcanoes.

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Complete the table below to show the physical processes that occur at each plate margin.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Plate margin (sketch) | Direction of plate movement | Physical processes | Earthquakes | Volcanic eruptions |
| A picture containing piece, crossword puzzle, text  Description automatically generatedConstructive |  |  |  |  |
| A picture containing object  Description automatically generatedDestructive |  |  |  |  |
| A picture containing text, piece, indoor  Description automatically generatedConservative |  |  |  |  |



## Check your learning

Head over to www.internetgeography.net/wb63 and complete the quiz. Add your score for quiz 4 on the recording sheet.

## Dual coding

Use dual coding to summarise what you have studied in this section. Take a look at <https://www.internetgeography.net/dual-coding/>

# A picture containing black Description automatically generatedTectonic hazards

What is the difference between a primary and secondary effects of an earthquake?

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Identify the primary and secondary effects of an earthquake.

|  |  |
| --- | --- |
| **Primary effects of an earthquake** | **Secondary effects of an earthquake** |
|  |  |

Annotate the photograph below to show the primary and secondary effects of the earthquake (make sure you draw arrows that touch the exact point you are referring to in the image).

An old stone building

Description automatically generated

Identify the primary and secondary effects of a volcanic eruption.

|  |  |
| --- | --- |
| **Primary effects of an earthquake** | **Secondary effects of an earthquake** |
|  |  |

A picture containing indoor, object

Description automatically generatedWhat is the difference between an immediate and long-term response to a tectonic hazard?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Give four examples of immediate responses to tectonic hazards.

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Give four examples of long-term responses to tectonic hazards.

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## Check your learning

Head over to www.internetgeography.net/wb64 and complete the key word quiz. Add your score for quiz 5 on the recording sheet.

## Dual coding

Use dual coding to summarise what you have studied in this section. Take a look at <https://www.internetgeography.net/dual-coding/>

# Comparing Earthquakes

You need to study named examples of two tectonic hazards to show how the effects   
and responses vary depending on their contracting levels of wealth. If you study either

the earthquake in Haiti or Nepal as your LIC example and either the Christchurch or L’Aquila as your example of an HIC there are quizzes to check learning.

|  |  |
| --- | --- |
| Earthquake in a LIC/NEE: | Earthquake in a HIC: |
| Primary effects: | Primary effects: |
| Secondary effects: | Secondary effects: |
| Immediate response: | Immediate response: |
| Long-term response: | Long-term response: |

Complete the table below using a ✔ to show the reasons for variations between the two earthquakes you have studied.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Causes differences in:** | | **Influence by wealth** |
| **Reasons for variations** | **Effects** | **Responses** |
| Building density |  |  |  |
| Construction standards |  |  |  |
| Corruption |  |  |  |
| Hazard-prone area |  |  |  |
| Magnitude or scale |  |  |  |
| Monitoring/prediction |  |  |  |
| Medical facilities |  |  |  |
| Population density |  |  |  |
| Resources/finance |  |  |  |
| Secondary effects (e.g. tsunamis |  |  |  |
| Time of day/year |  |  |  |
| Trained emergency services |  |  |  |
| Transport infrastructure |  |  |  |
| Type of plate margin |  |  |  |



## Check your learning

Earthquake in an LIC (you only need to complete one of these)

Haiti: www.internetgeography.net/wb65

Nepal: www.internetgeography.net/wb66

Add your score to quiz 6.

Earthquake in an HIC (you only need to complete one of these)

L’Aquila: www.internetgeography.net/wb67

Christchurch: [www.internetgeography.net/wb68](http://www.internetgeography.net/wb68)

Add your score to quiz 7.

## Dual coding

Use dual coding to summarise what you have studied in this section. Take a look at <https://www.internetgeography.net/dual-coding/>

# A picture containing crossword puzzle, text, piece, black Description automatically generatedManagement of tectonic hazards

A considerable number of people live in tectonically active areas of the world. Complete   
the table below to identify economic and social reasons for this.

|  |  |
| --- | --- |
| **Economic reasons for living in risk in tectonically active locations** | **Social reasons for living at risk in tectonically active locations** |
|  |  |

Complete the spider diagram below to show how the risks from tectonic hazards can be reduced. Use a different coloured pen for earthquakes and volcanic eruptions.

A picture containing piece, black, text

Description automatically generated

A picture containing black, text, indoor, crossword puzzle

Description automatically generated

**Prediction**

**Monitoring**

**Planning**

**Protection**



## Check your learning

Head over to www.internetgeography.net/wb69 and complete the key word quiz. Add your score for quiz 8 on the recording sheet.

## Dual coding

Use dual coding to summarise what you have studied in this section. Take a look at <https://www.internetgeography.net/dual-coding/>

# Check your learning recording table

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Attempt 1** | **Attempt 2** | **Attempt 3** |
| Quiz 1  www.internetgeography.net/wb60/ | /10 | /10 | /10 |
| Quiz 2  www.internetgeography.net/wb61/ | /10 | /10 | /10 |
| Quiz 3  www.internetgeography.net/wb62/ | /10 | /10 | /10 |
| Quiz 4  www.internetgeography.net/wb63/ | /10 | /10 | /10 |
| Quiz 5  www.internetgeography.net/wb64/ | /10 | /10 | /10 |
| Quiz 6  Earthquake in an LIC (you only need to complete one of these)  Haiti: www.internetgeography.net/wb65  Nepal: www.internetgeography.net/wb66 |  |  |  |
| Quiz 7  Earthquake in an HIC (you only need to complete one of these)  L’Aquila: www.internetgeography.net/wb67  Christchurch: www.internetgeography.net/wb68 |  |  |  |
| Quiz 8  www.internetgeography.net/wb69/ | /15 | /15 | /15 |