

YEAR 12 – BRIDGING UNITS

A-LEVEL GEOGRAPHY – WORK BOOKLET



**ST HILDA'S
COLLEGE**

The 6th Form
@ St Hilda's

BRIDGING
UNITS

Name:

Anything is

POSSIBLE



GEOGRAFE BRIDGING THE GAP

Welcome to Team Geography

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Well done, you made a great choice. Of course, as a geography graduate (yep I studied geography at Uni) I would say that wouldn't I!

Well, don't just take my word for it. According to the former president of the Royal Geographical Society, Michael Palin, "Geography is not only up-to-date and relevant, it is one of the most exciting, adventurous and valuable subjects to study today. So many of the world's current problems boil down to geography and need the geographers of the future to help us understand them."

Former US President, Barack Obama, recognises the importance of geography too! He said "The study of geography is about more than just memorizing places on a map. It's about understanding the complexity of our world, appreciating the diversity of cultures that exists across continents. And in the end, it's about using all that knowledge to help bridge divides and bring people together."

In our rapidly changing world, we need people like you to study geography more than ever. The adopted godfather of geography, David Attenborough agrees! He said "The truth is: the natural world is changing. And we are totally dependent on that world. It provides our food, water and air. It is the most precious thing we have, and we need to defend it."

An essential outcome of studying geography is being able to apply knowledge and understanding to new settings. Thinking like a geographer is an amazing ability as Dr Rita Gardner points out "Geography prepares young people with the knowledge, skills and understanding to make sense of their world and to face the challenges that will shape our societies and environments at the local, national and global scales."

With the skills and knowledge of a geographer **you** can make a difference to the world we live in. **Welcome to team geography.**

I ♥ Geography



"One of the most exciting, adventurous and valuable subjects today"



"Helps bridge divides and brings people together"



"Geography prepares young people with the knowledge, skills and understanding to make sense of their world"

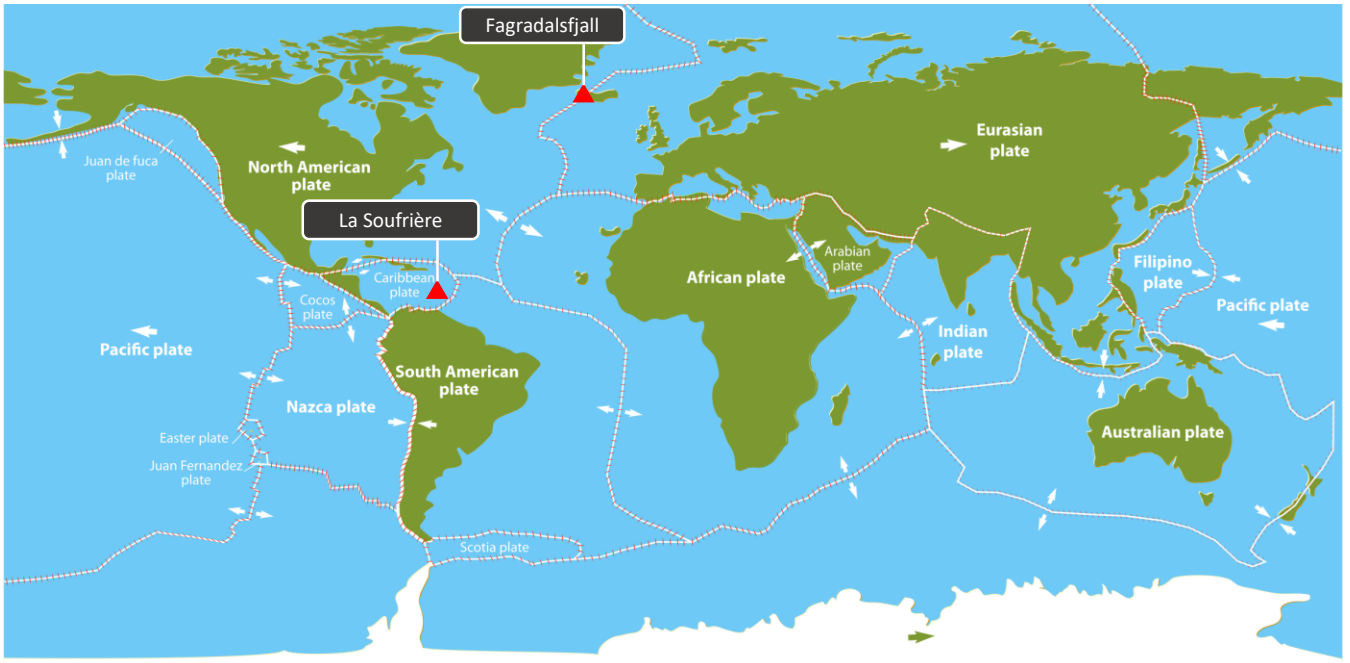


"(the world) is the most precious thing we have, and we need to defend it"



Introduction

As a further education (FE) student you're going to find studying a little different to what you experienced at GCSE level. You are going to be expected to take more responsibility for your learning! Whether or not you're studying geography post-16 this project will help you to develop skills that can be used across FE courses (and you get to learn about two amazing volcanic eruptions that have happened lately!).



In this assignment you are going to research two volcanic eruptions that have occurred in 2021. To get started, take a look at the videos below to see what you're going to be studying.

Volcano 1 – Fagradalsfjall, Iceland

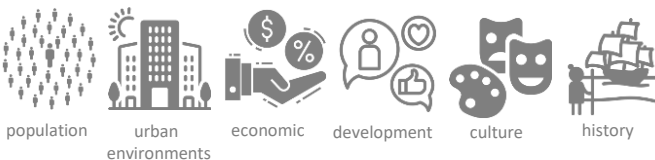
<https://tinyurl.com/fagrad1> <https://tinyurl.com/fagrad2>

Volcano 2 – La Soufrière, St Vincent

<https://tinyurl.com/lasouf1> <https://tinyurl.com/lasouf2>

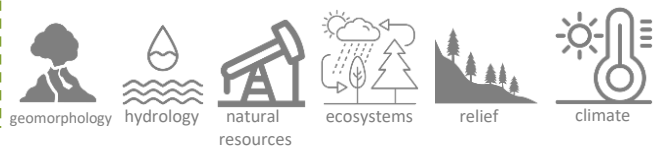
Human Geography

Things that are to do with people.



Physical Geography

Things that are to do with the natural environment.





Challenge 1 - Cornell Notes

When studying at FE you will be expected to do wider reading. This means reading extra articles/books etc. in addition to your text books that link to your courses. Making organised notes when doing this can really help develop your knowledge and understanding. One really useful note taking technique is Cornell Notes.

You are going to use the Cornell Notes method of recording information from the volcano resource booklet you've been given. To do this, you are going to research how to use Cornell Notes using the resources below.

Cornell Notes

1. Watch the two videos about taking Cornell Notes on Internet Geography:
www.internetgeography.net/cornell-notes



Use the link above or scan the QR code

2. Divide up the page on the right to prepare it for recording Cornell Notes.

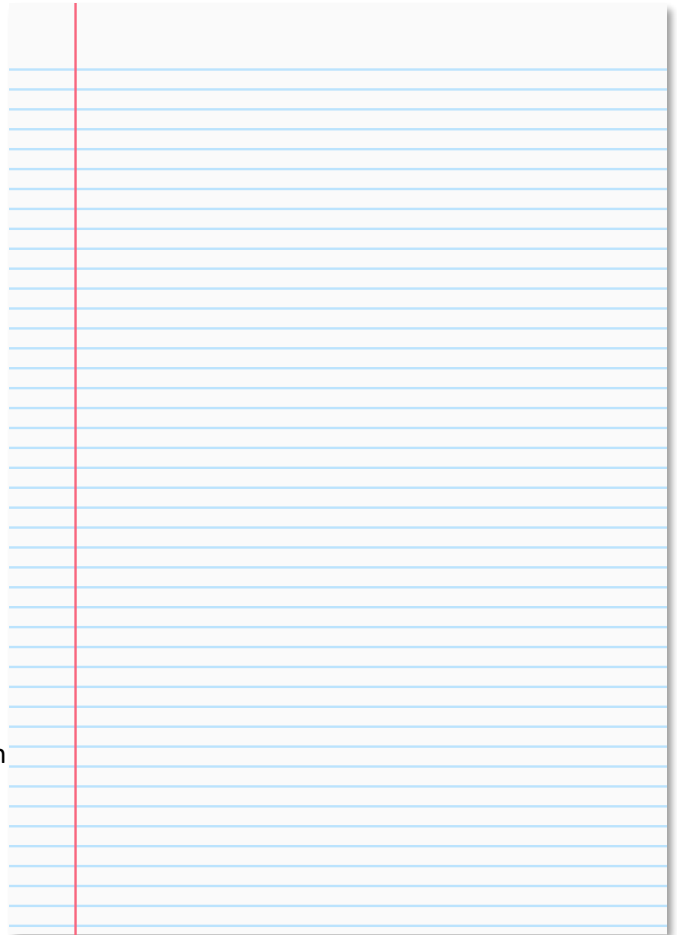
3. Annotate the page on the right to show how Cornell Notes should be completed.

4. Turn over the page and look at the example Cornell Notes that have been started. Using the webpage below complete the notes (I got up to paragraph 3 so start from 4).

www.alevelgeography.com/structure-of-the-earth

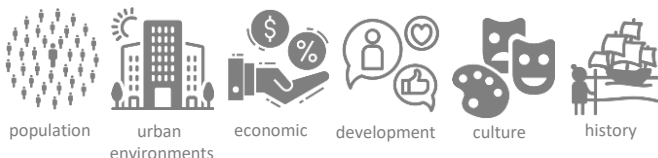


Use the link above or scan the QR code



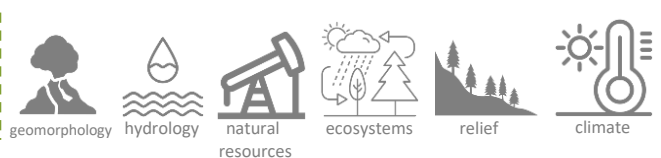
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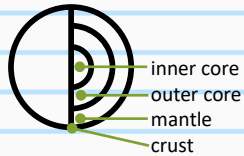
Things that are to do with the natural environment.



Structure of the Earth

Keywords

Continental crust
 Mohorovicic Discontinuity (Moho)
 Asthenosphere
 Lithosphere



Crust – oceanic > around 5km
 - continental > average around 30km (up to 100km large mountain ranges)

Moho – boundary between the crust and mantle

Mantle – dense (due to temp and pressure) – semi-solid rock – 2900km thick
 - iron / magnesium / calcium

Upper Mantle – **Asthenosphere** **Lithosphere**

100 to 300 km down Semi molten (flows slowly) Rigid layer between crust and asthenosphere

Questions

What are the characteristics of the Moho?

Summary



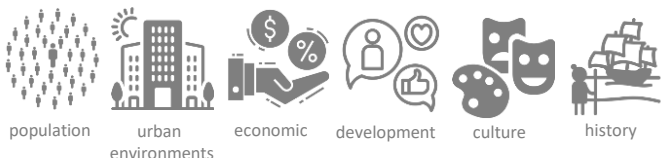
Challenge 2 - Take Note

In 2021 volcanoes had been in the news with the eruptions in Iceland, near Mount Fagradalsfjall and the La Soufrière volcano on the Caribbean island of Saint Vincent. Volcanoes are covered in most A level Geography specs, so it is really useful for you to keep up with the news and study these recent events.

You have been provided with a resource booklet that discusses the eruption of the two volcanoes. Read the two articles and complete Cornell Notes for each article. Pages have been provided in this booklet for you to complete the activity.

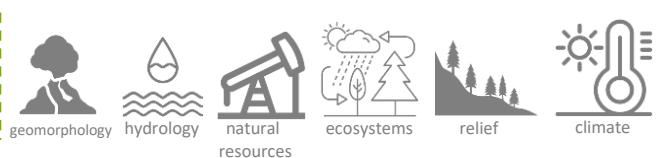
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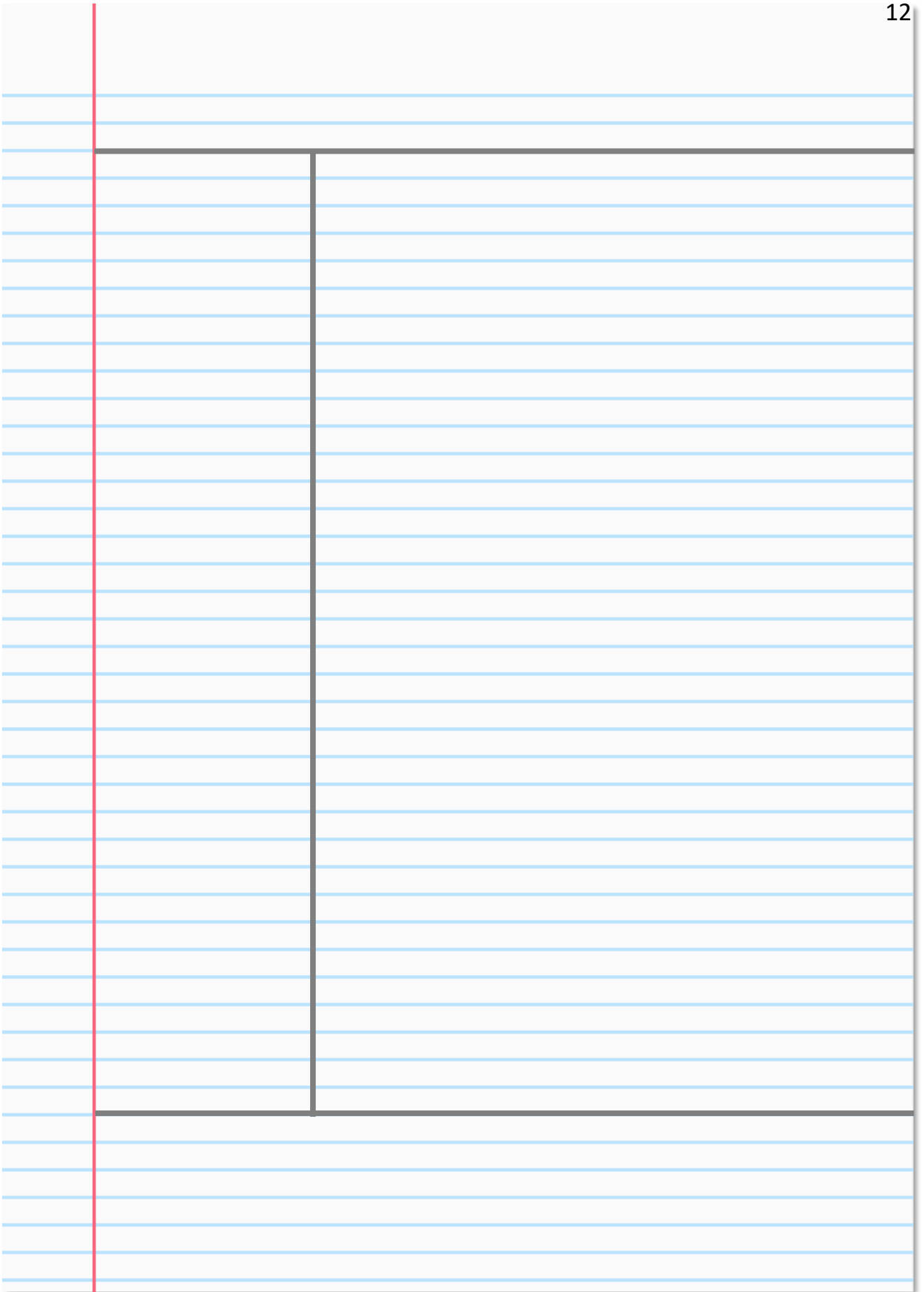
A table with two columns and two rows is drawn on lined paper. A vertical red line is on the left side of the page. The table is formed by black lines: a top horizontal line, a bottom horizontal line, a vertical line on the left, and a vertical line on the right. The table is empty.

The image shows a page with a red vertical margin line on the left side. A black border forms a table with two columns and two rows. The top row is empty. The middle row is filled with horizontal blue lines. The bottom row is empty. The page number '8' is located in the top right corner.

The image shows a sheet of lined paper with a table structure. A red vertical line is positioned on the left side of the page. The table is defined by black lines and consists of two columns and two rows. The top row is empty, and the bottom row is also empty. The rest of the page is filled with horizontal blue lines for writing.

The image shows a page of lined paper with a red margin line on the left and a black table border. The table has two columns and two rows. The top row is empty, and the bottom row is also empty. The page number '10' is in the top right corner.

The image shows a sheet of lined paper with a red margin line on the left side. A black table border is drawn across the page, creating a table with two columns and two rows. The top row is empty, and the bottom row is also empty. The table is positioned such that it spans most of the width of the page, with a small margin on the left side.



The image shows a page with a white background and a dashed black border. A vertical red line is positioned on the left side, creating a margin. A black border forms a rectangular frame that is open at the top. Inside this frame, there are horizontal blue lines spaced evenly down the page. A vertical black line is drawn from the top edge of the black frame down to the bottom edge, dividing the interior of the frame into two columns. The top portion of the page, above the black frame, is blank white space.



Challenge 3 - Mind Mapping

You should now be in the position of having several pages of notes covering each volcanic eruption. The challenge now is transforming the information you have gathered into knowledge. This is where mind maps can help! A mind map can help organise information and help illustrate how things are interrelated. The guide below illustrates how to create a mind map.



Step 1

Start with a central concept. Write this in the middle of a piece of plain paper that is orientated landscape.



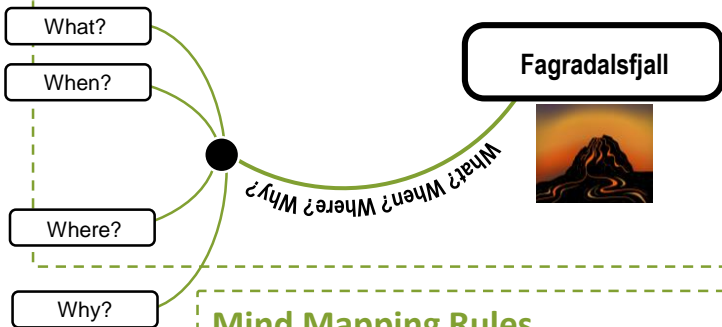
Step 2

Draw a reasonably sized (coloured) memorable image that represents the topic you are going to be mapping.



Step 3

Draw branches from the central theme. Using a different colour for each branch is useful. Write key words along these branches that represent what information will be included on this branch.



Step 4

Draw additional branches that extend from your main branches. Add appropriate images where you can. Keep expanding the mind map.

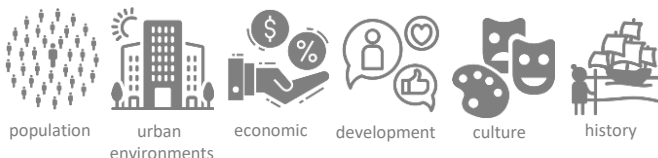
Mind Mapping Rules

- Use symbols
- Keywords on lines
- Lines of different colour, size, styles
- Upper and lower case to emphasise
- Vary colours
- Key headings
- lists

Use the A3 templates you've been given to organise your information and produce a mind map to show the main features of each eruption.

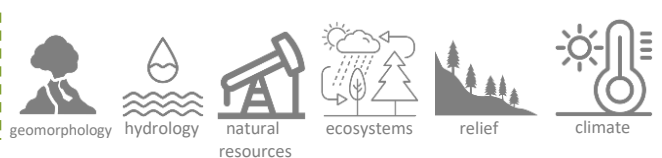
Human Geography

Things that are to do with people.



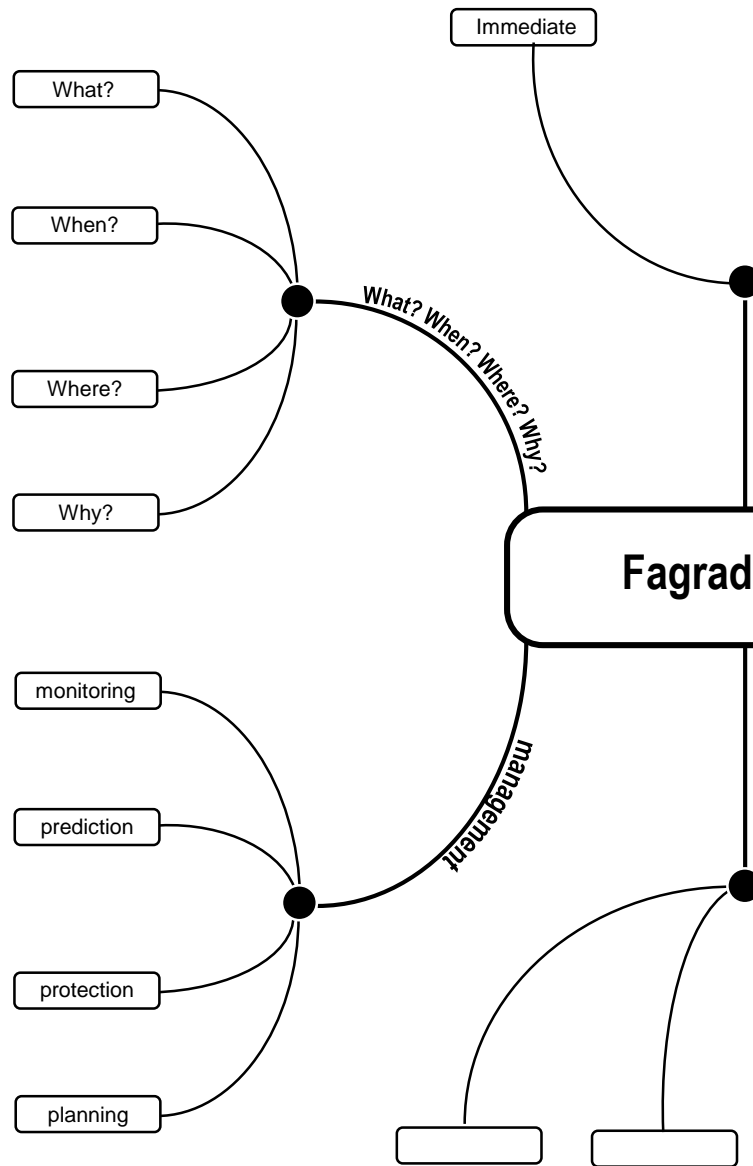
Physical Geography

Things that are to do with the natural environment.



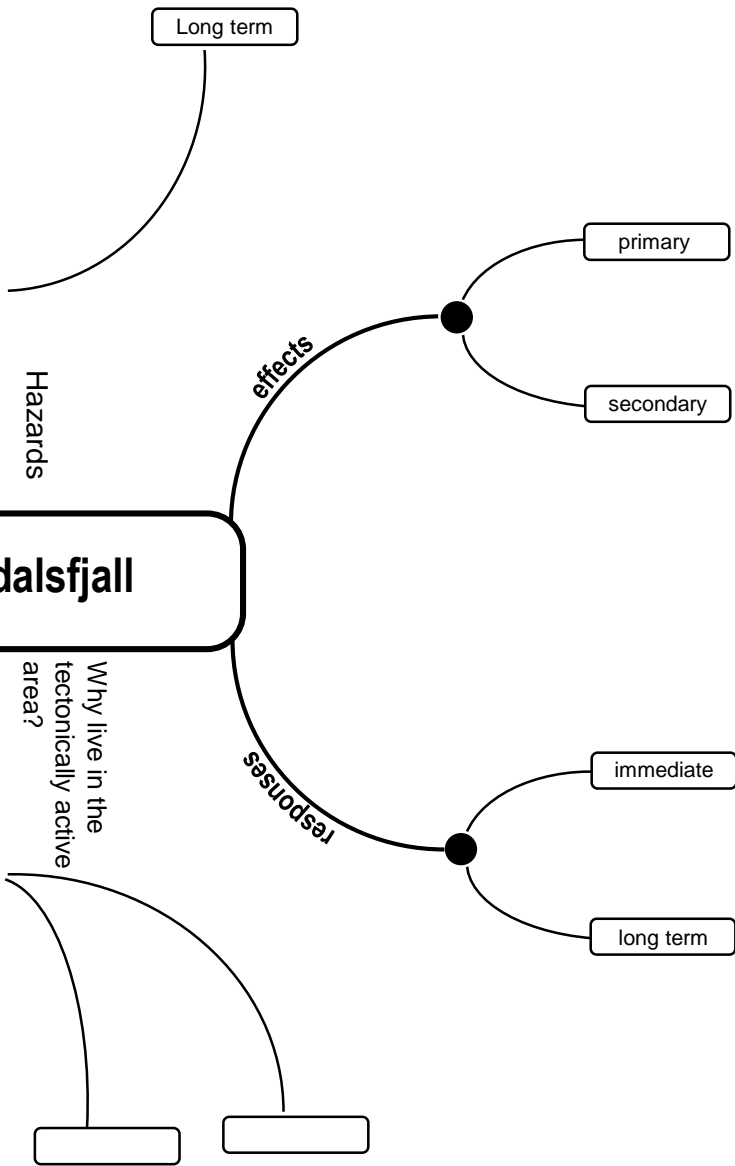


Challenge 3 - Mind Mapping



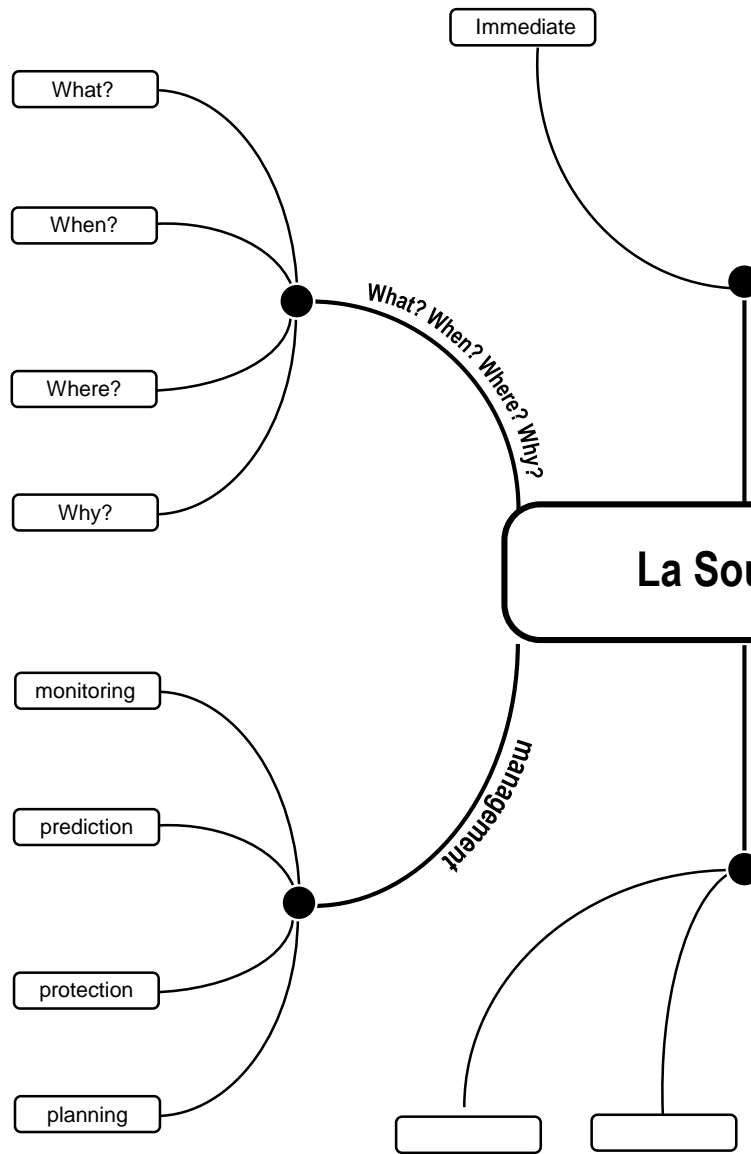


Challenge 3 - Mind Mapping



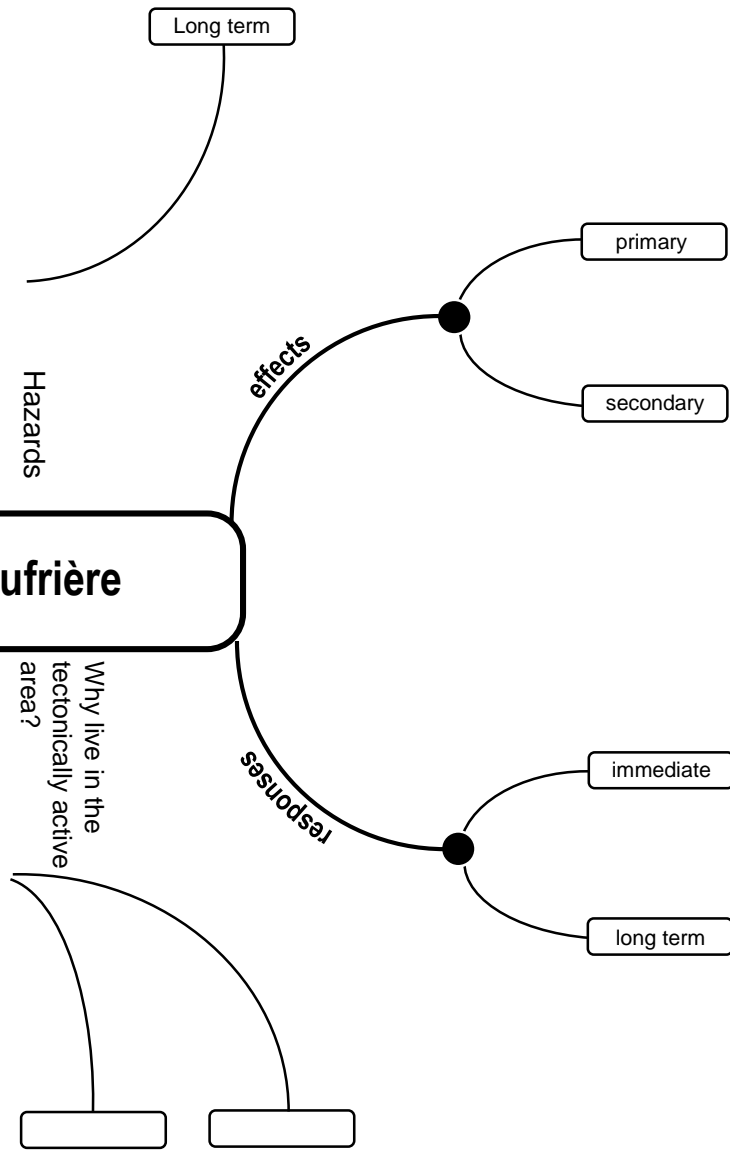


Challenge 3 - Mind Mapping





Challenge 3 - Mind Mapping



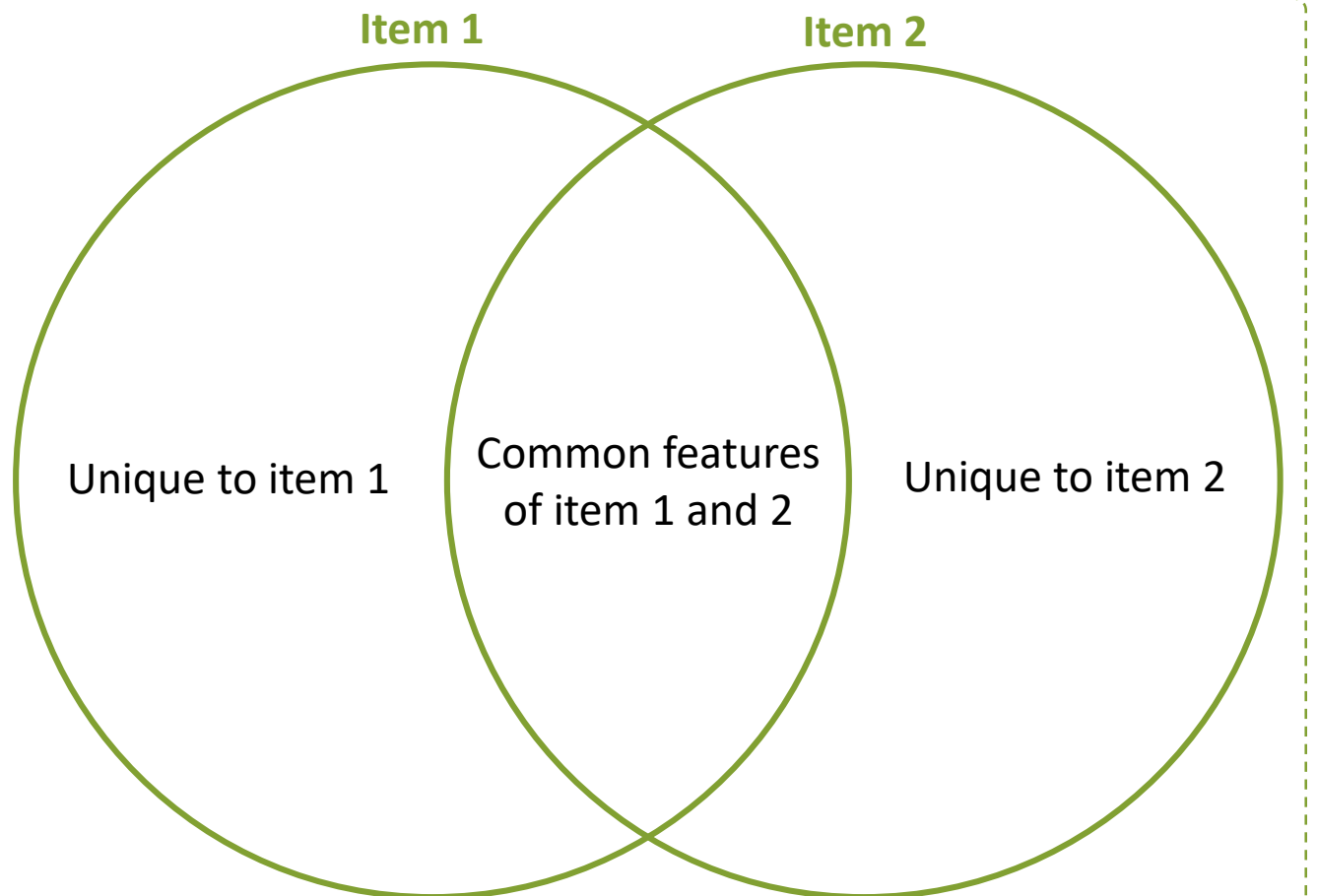


Challenge 4 - Compare and Contrast 19

Being able to compare and contrast is a useful skill to have when studying at a higher level. A useful tool to do this is a Venn Diagram. Venn Diagrams show the relations between multiple sets of information. The guide below illustrates how to use a Venn Diagram to compare and contrast two things.

Creating a Venn Diagram

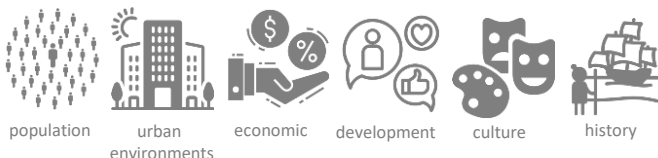
1. Draw two circles that overlap (as shown below)
2. Identify the things you are comparing and contrasting
3. In the area below item one, identify everything that only applies to item one
4. In the area below item two, identify everything that only applies to item two.
5. In the area where the circles cross over, identify everything the two items have in common



Use the A3 template you've been given to create a Venn Diagram to compare and contrast the two eruptions you have been studying.

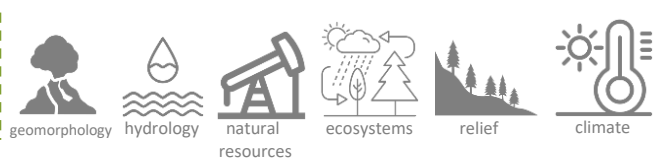
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Physical Geography

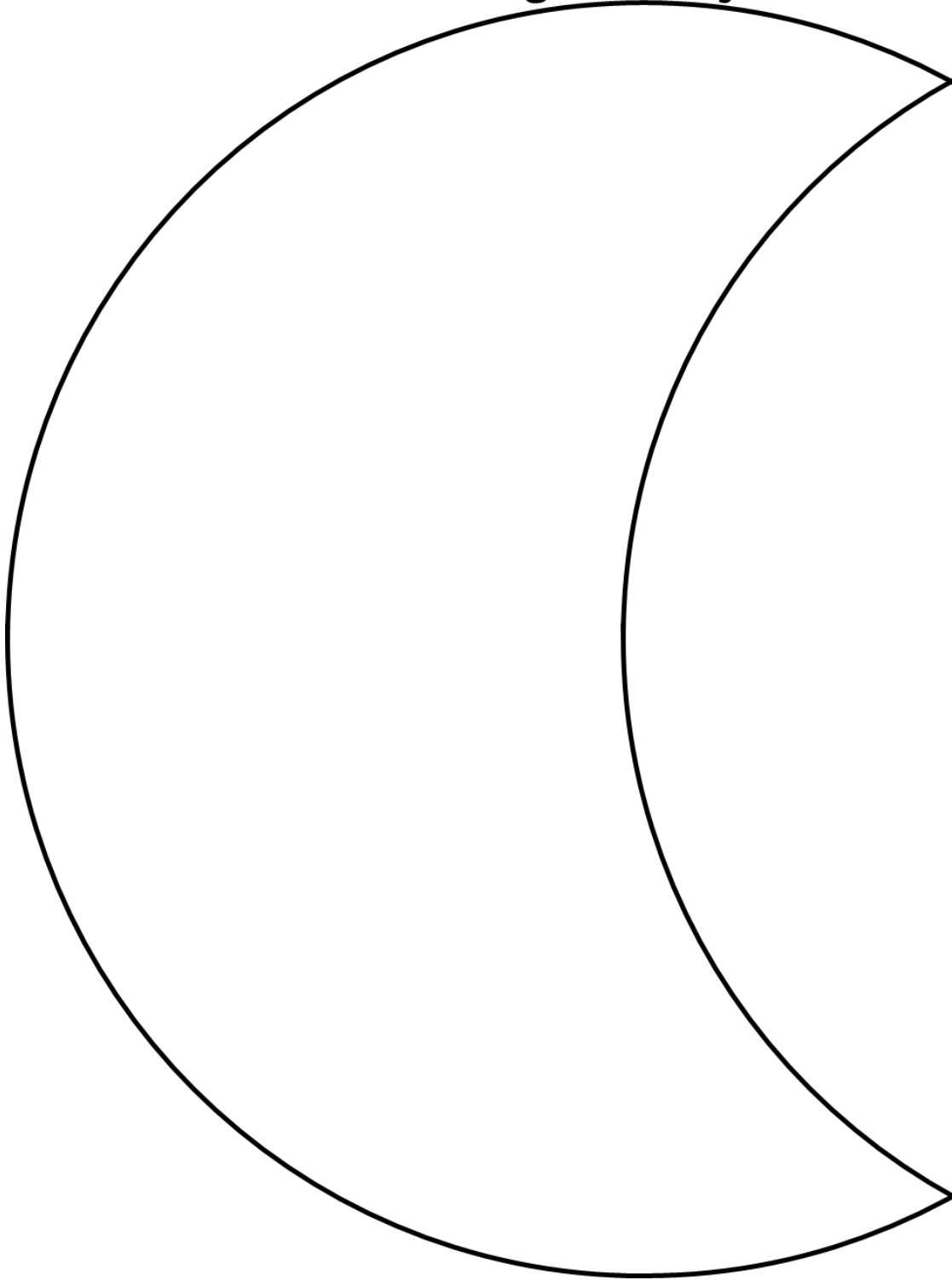
Things that are to do with the natural environment.





Challenge 4 - Compare and Contrast ²⁰

Fagradalsfjall



Human Geography

Things that are to do with people.



population



urban environments



economic



development



culture



history



geomorphology



hydrology



natural resources



ecosystems



relief



climate

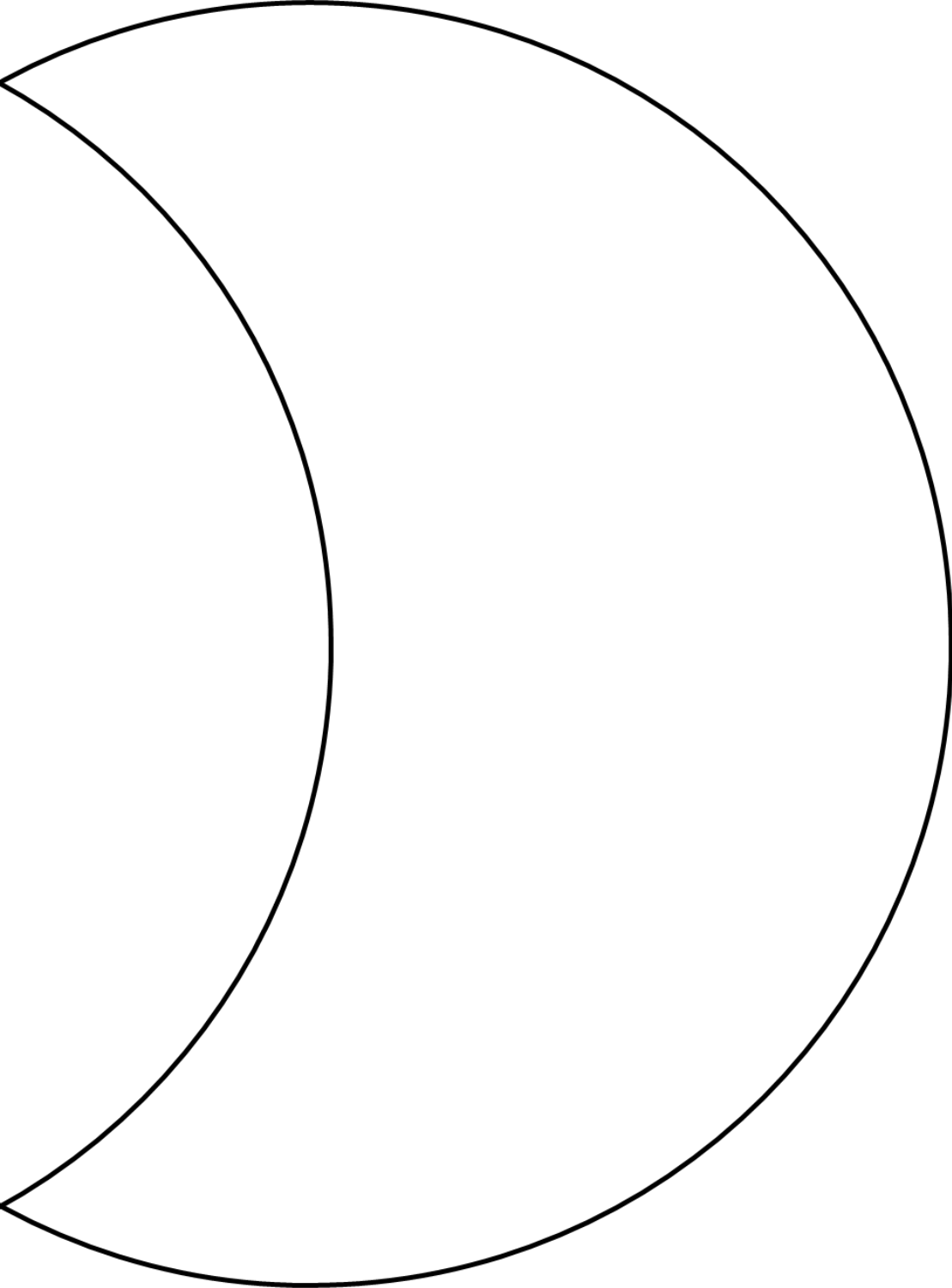
Physical Geography

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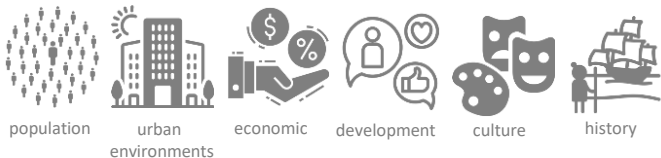
Challenge 4 - Compare and Contrast ²¹

La Soufrière



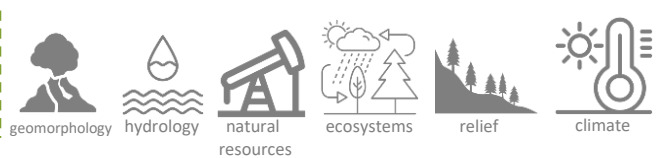
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Challenge 5 - Revise It

In preparation for completing some questions based on your learning, you are going to spend some time revising the two case studies. To do this, you are going to try a different approach to revision called the Leitner Box. The Leitner Box was developed by a German scientist called Sebastian Leitner and is a really effective, easy to develop practice and recall system. The approach involves using flash cards to learn and recall information. To begin with, you will need to develop a bank of flash cards covering the main aspects of the two volcanic case studies. Follow the guide below to create your flash cards. Flashcards should be used to test your knowledge, not just as a way to condense your notes further.

1. Ensure that the flashcards have a question or key term on one side and the answer or definition on the other.
 - The flashcard must work the memory.
 - If flashcards only contain notes then no retrieval practice will be happening.

2. Ensure the right questions and knowledge are on the cards.

3. Keep the information as short as possible. You are condensing the information you have.

4. Write clearly. You should be able to read what you wrote at a very quick glance.

Leitner recommends that when we have a large amount of information to learn on flash cards we tend to focus on those we already know and avoid the ones we find difficult. To avoid this, create four sections in your storage box (or what ever way you are storing your cards).

Box 1

Here you put the cards for frequent practice. This is the stuff that needs regular review because you're not remembering it. Spend around 40% of your time on these. When you are confident and fully recall a card, move it to box 2.

Box 2

Around 30% of your time is spent here. These are cards that have only just moved out of box 1, or cards containing information that still trips you up. If you're not remembering it, move it up to box 1 or down to box 3 if you've regularly recalling it.

Box 3

Spend around 20% of your time here. These are the cards you can almost always recall. You feel confident about the content, even though some might be complex. If you make any mistakes in recall, move the card up to box 2.

Box 4

You'll start with only a few cards here. This is the material you feel is easy to recall. You always get it right, therefore you only spend 10% of your time checking the cards here. However, it is key that nothing ever leaves this box as you know it so well.

Test your self with the information on your cards. Have a friend or family member check your ability to recall the information on the cards. Repeat until all cards are in box 4.

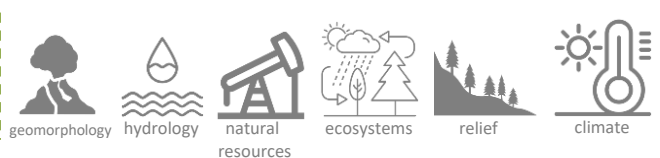
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Challenge 6 – Assess It

No one likes a test. However, completing practice questions can really help develop your knowledge as well as your ability to apply this to demonstrate understanding. Over the next couple of pages are a selection of A Level transition questions to have a go at.

1. State what is meant by the term tephra [2]

2. Use Figure 1 to describe how Iceland’s location on the Mid-Atlantic Ridge constructive plate boundary had led to its distinctive tectonic landscape. [4]

3. Explain the process of subduction at the oceanic-oceanic crust convergent plate boundary, as shown in Figure 4. [4]

4. Outline the characteristics of an explosive eruption. [4]

5. Outline the main hazards from lava flows [4]

6. Suggest why pyroclastic flows can be so hazardous, making reference to the text on the La Soufrière eruption on page 7 of the resource booklet. [3]

7. Compare and contrast the tectonic settings for Iceland and St Vincent and the Grenadines. [4]

8. Suggest why vulnerability to tectonic hazards may vary between Iceland and St Vincent and the Grenadines. [4]



Challenge 7 - Essay

You're going to be so excited by this! You will often be expected to write essays when studying at key stage 5. I know, exciting eh? To get you on the road to effective essay writing you're going to be guided through an A-level style essay question. The question we're going to have a go at is:

With reference to the Fagradalsfjall and La Soufrière eruptions, assess the extent to which economic development affects the ability to cope with exposure to tectonic risks. [12]

Exam questions at key stage 5 can be worth up to 24 marks.

Essay Guide

1. Read the question and BUG it - BOX the command word; UNDERLINE the focus; GLANCE back to check you have answered it properly.
2. Remind yourself what the command word wants you to do - ASSESS wants you to make an informed judgement.
3. Start off with a brief introduction - open with your judgement as this then provides you with a focus to base the structure of the rest of your essay on - try to include some key vocabulary early on. If you demonstrate that you understand the key terms mentioned in the question and the command words you are off to a confident start!
4. Introduce the Fagradalsfjall eruption - discuss the impacts of the eruption along with the management, monitoring and response. You need to make multiple points to support your arguments - and refer back to the link to economic development throughout. Bring in examples from the text - but don't just copy extracts of information - you need to do something with that information to demonstrate your understanding. Make a counter argument if appropriate.
5. Then introduce the La Soufrière - and do the same as above, but this time introduce some comparative language such as 'whereas', 'on the other hand' to link it to the Fagradalsfjall eruption, as well as back to the question.
6. Remember 'PEEL - Point -> Evidence -> Explanation -> Link back to the question' throughout your discussion - this keeps your argument clear throughout, and ensures that you are answering the question.
7. Remember chains of reasoning - elaborate your explanations with phrases like 'this means that...', 'this leads to...', 'this results in...'
8. Finish off with a conclusion - draw together the different points you have made in your essay - make sure you summarise your arguments and reiterate your original judgement and link back to the question (which in this case is about the link between economic development and the ability to cope with tectonic hazards - specifically in the context of Iceland and St Vincent and the Grenadines).

Ready to give it a go? Using the following pages (and the guide above), have a go at writing your first essay. All that is expected is that you give it your best shot!

