

Question 1 (2 marks)

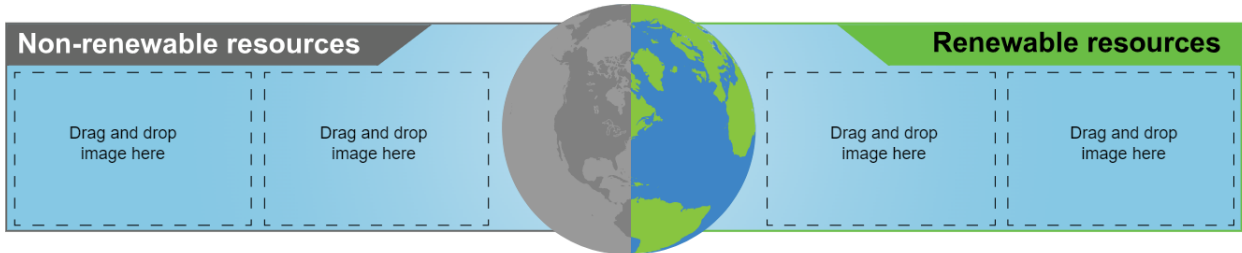
Select four appropriate images. Drag and drop to complete the diagram below.

Draggable items:



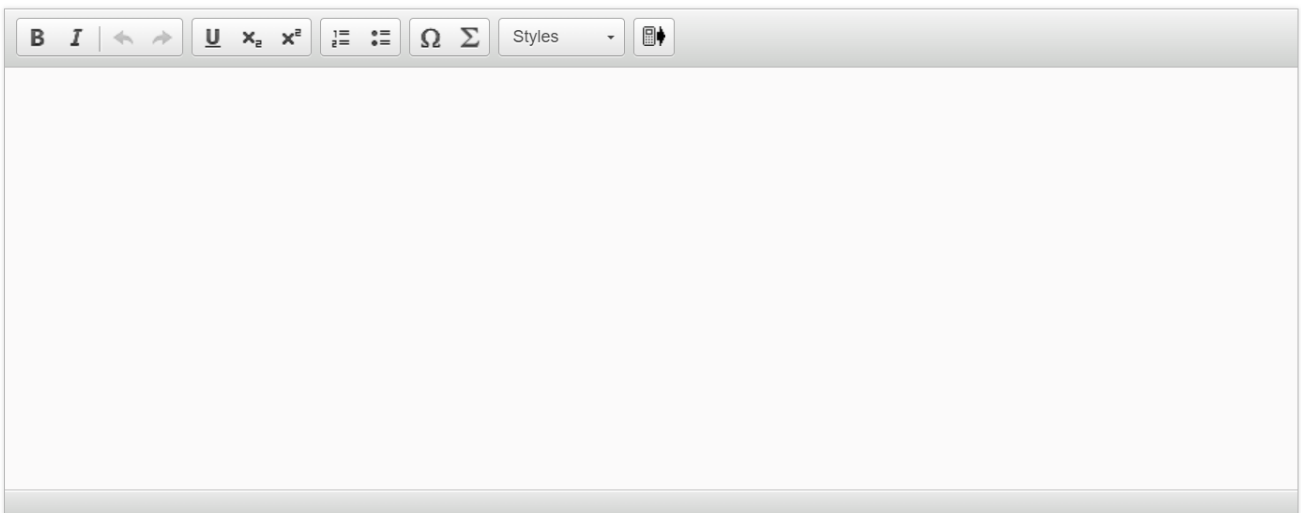
Coal Geothermal Solar Oil Wind

Natural energy resources



Question 2 (4 marks)

Natural resources can become scarce. Using an example from your MYP studies, **explain one** factor that can cause scarcity of natural resources.



The image shows a rich text editor toolbar with the following icons from left to right: Bold (B), Italic (I), Undo (left arrow), Redo (right arrow), Underline (U), Subscript (x₂), Superscript (x²), Bulleted List (list with dots), Numbered List (list with numbers), Link (Ω), Unlink (Σ), Styles (dropdown menu), and a Clipboard icon.



Question 3 (8 marks)

Watch the video below and answer the questions that follow.

[Video](#)

[Transcript](#)

The Grand Ethiopian Renaissance Dam will be Africa's most important source of hydroelectric power. It is hoped that it will solve Ethiopia's energy crisis.

However, there are concerns from the other countries along the Nile River.

For example, Egypt is a country with little annual precipitation, making water scarce there. It depends on the Nile for 90% of its water.

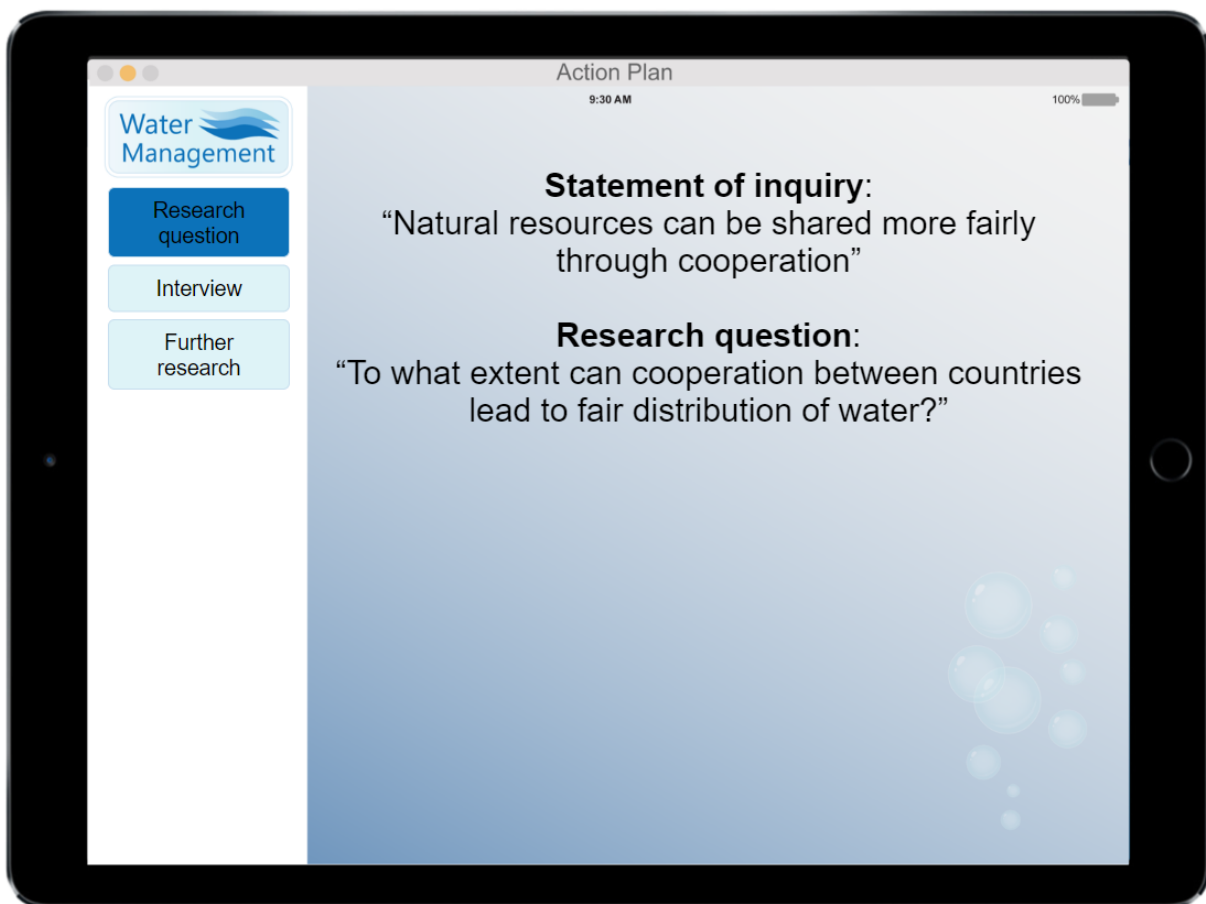
Sudan is also using more water from the Nile than it used to. These countries are concerned that the dam will reduce the amount of water they receive.

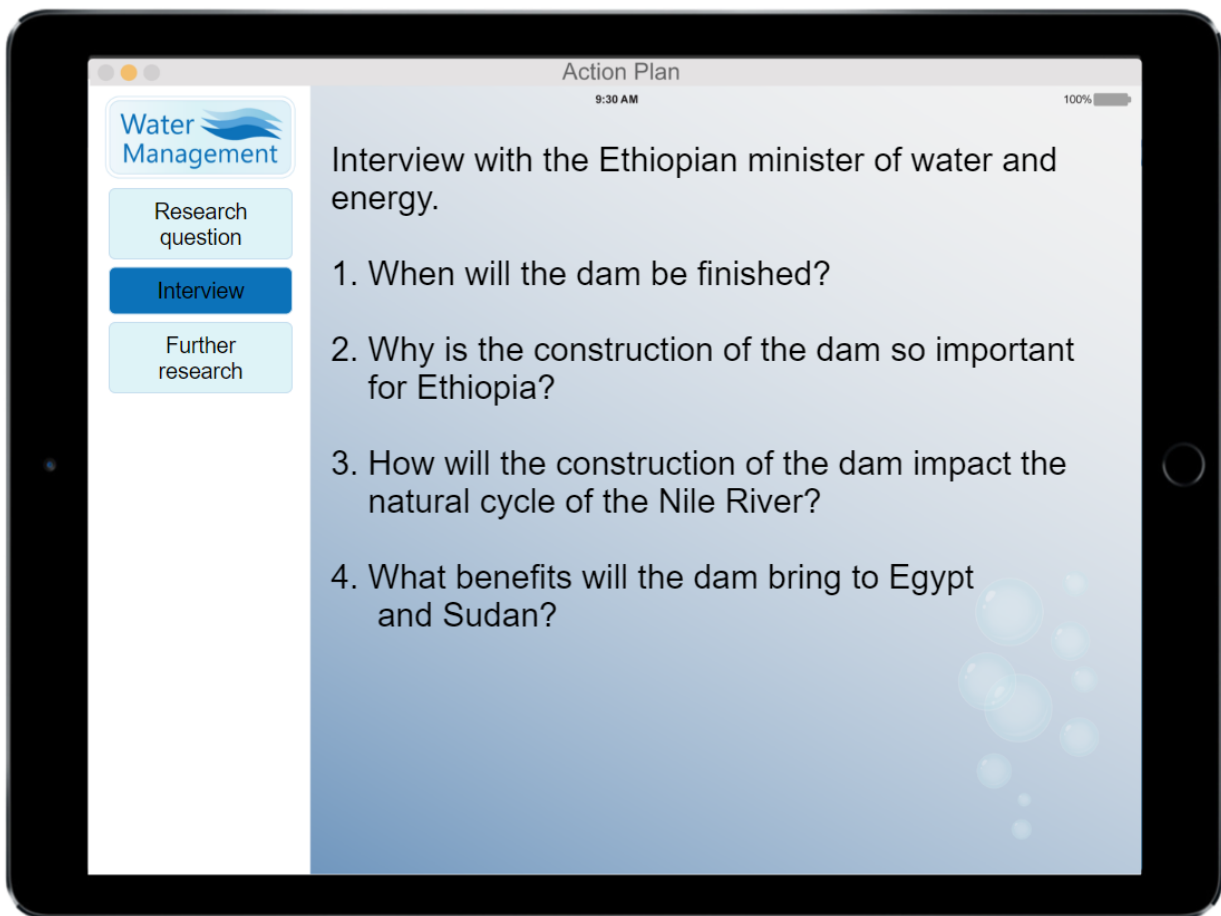
Due to these concerns about the dam, Ethiopia, Sudan and Egypt have agreed to work together to make the best use of their shared natural resource – the Nile River.

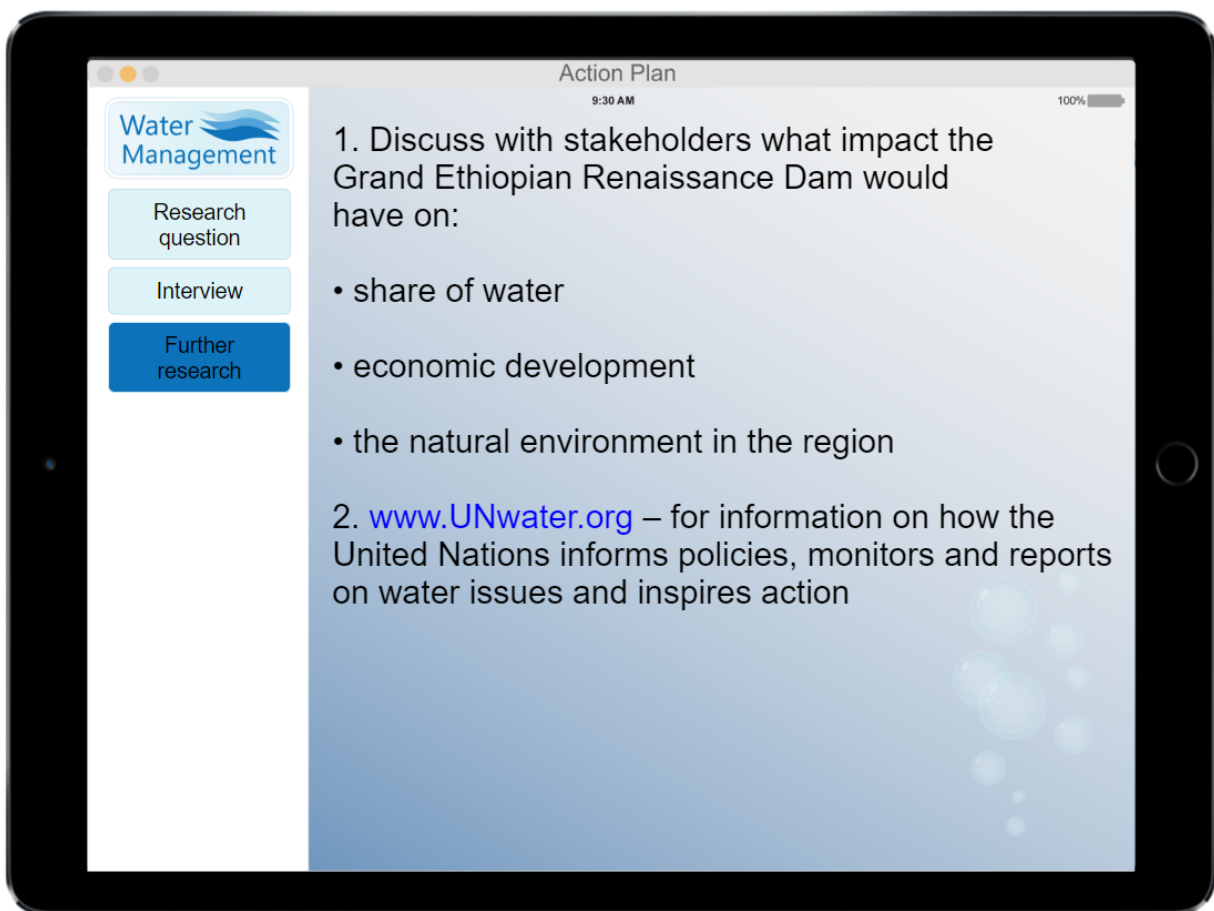
Ethiopia, Sudan and Egypt have hired a consultant who specializes in water management to help them reach an agreement about the Grand Ethiopian Renaissance Dam.

The consultant's investigation action plan is shown below. You will be asked to evaluate this action plan.

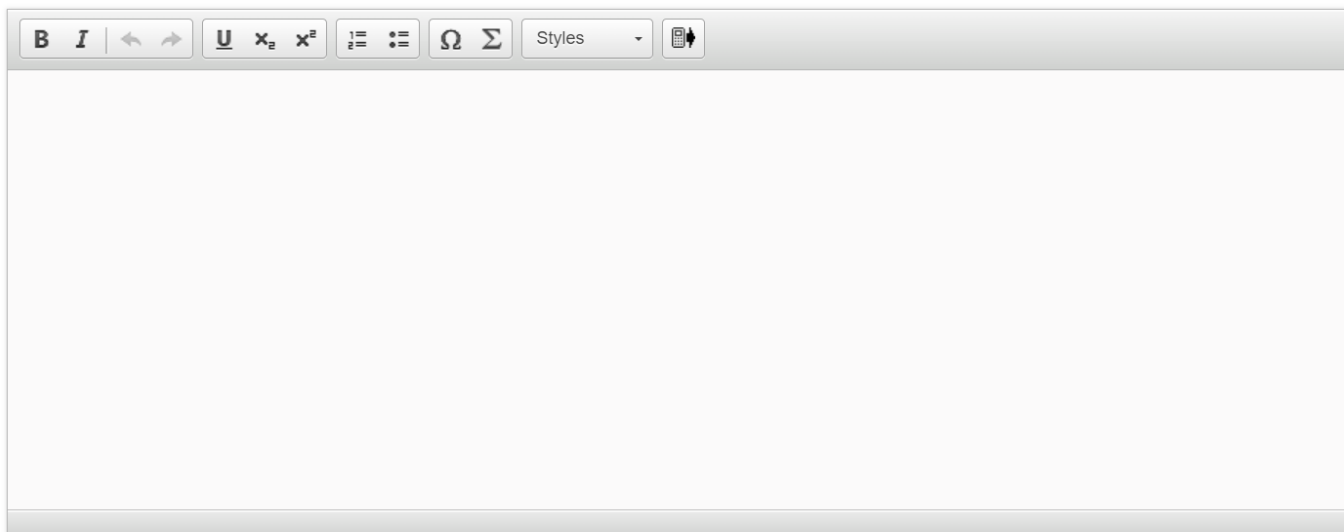
Click on the buttons to show more information.







Evaluate the consultant's action plan.



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Question 4 (12 marks)

Now that you have evaluated the consultant's action plan in question 3, you will take on the role of a researcher who has been asked to plan an investigation into issues relating to natural resource management.

The following is the statement of inquiry you need to base your investigation on:

“The extraction of natural resources can have a great impact on human and natural environments.”

Question 4a (2 marks)

With reference to the statement of inquiry, **formulate** a clear and focused research question.

B *I* | ← → | x₂ x² | :≡ :≡ | Ω Σ | Styles ▾ | 📄



Question 4b (4 marks)

Justify the relevance of your research question to the statement of inquiry.

B *I* | ← → | x_e x² | ☰ ☷ | Ω Σ | Styles ▾ | 📱





Question 4c (2 marks)

List two relevant methods for collecting information/data for your investigation.

B *I* | ← → | x_2 x^2 | $\frac{1}{2}$ $\frac{3}{4}$ | Ω Σ | Styles ▾ |



Question 4d (2 marks)

Outline how **one** of the methods listed in part (c) could be useful to your investigation.

B *I* | ← → | x₂ x² | ☰ ☷ | Ω Σ | Styles ▾ | 📄 ↕



Question 4e (2 marks)

Outline one challenge you might face while collecting information/data for your investigation.

B *I* | ← → | U x_2 x^2 | ☰ ☷ | Ω Σ | Styles ▾ | 📄 ↕



Question 5 (18 marks)

The video report below was shown on a TV show about the impacts of tourism on the natural environment. Watch the video and answer the question that follows.

[Video](#)

[Transcript](#)

All over the world, natural environments are coming under threat from 'overtourism'. This is when popular destinations become overrun with tourists in an unsustainable way.

In many countries, governments are thinking about controlling the number of tourists who can visit.

Even in remote places such as Mount Everest in Nepal, thousands of tonnes of rubbish and human waste are left each year by climbers and tourists.

On the Galapagos Islands, part of Ecuador, many of the unique species there are threatened by pollution and disturbance caused by tourists.


Tourism is contributing to the loss of coral on the Great Barrier Reef off the coast of Australia.

Some beaches on the Mediterranean coast have become so overcrowded that pollution from plastics and waste is causing severe damage to the sea and marine wildlife.

If something is not done urgently, these natural environments will be lost to future generations.

The video report has inspired you to start a petition to convince world leaders to take action and protect natural environments.

Write an appropriate title for your petition here.

B *I* | ← → | U x_2 x^e | \sum Ω | Styles ▾ | 

Drag and drop to choose **one** image to be shown on your petition.

Draggable items:

Sign the Petition now!

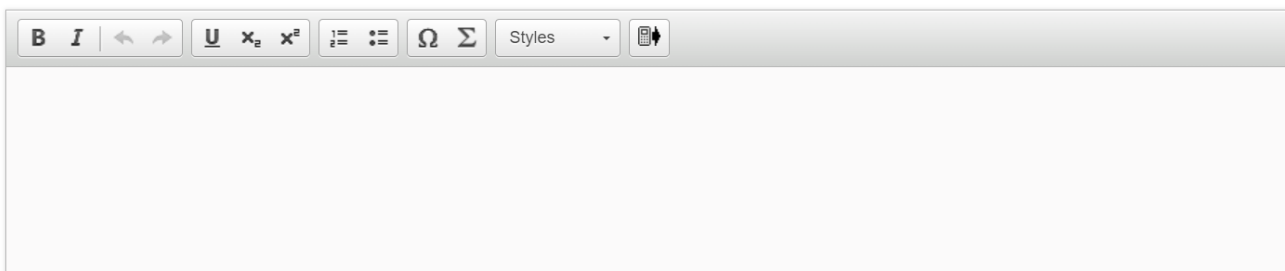
Drag your chosen image here

Draggable items:

Sign the Petition now!

Drag your chosen image here

Write a brief caption for your chosen image to help persuade people to sign your petition.



A rich text editor toolbar with icons for bold, italic, text color, background color, bulleted list, numbered list, link, unlink, styles, and image.

A local TV channel has asked to interview you as a result of your petition.

Your interview should persuade people to sign your petition by explaining how natural environments are threatened by tourism and how they could be managed more sustainably.

In your response, you should refer to examples from your MYP studies.

Interview question: Can you **explain** to our viewers how natural environments are threatened by overtourism and how this can be managed sustainably for future generations?



A rich text editor toolbar with icons for bold, italic, text color, background color, bulleted list, numbered list, link, unlink, styles, and image.



Question 6 (2 marks)

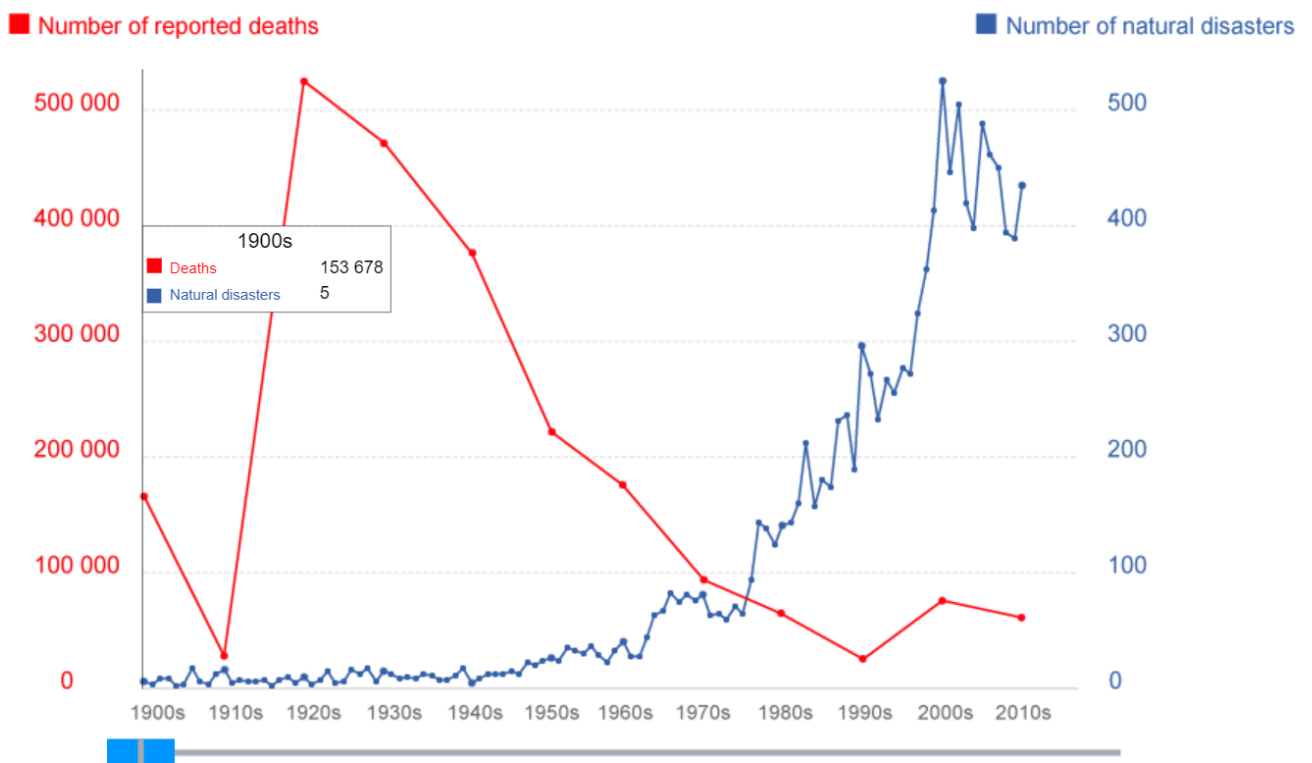
Using data from **Source A**, **outline** the trend in global deaths from natural disasters between the 1900s and 2010s.

The number of deaths is given as an average per decade (by decade 1900s to 2000s; and then six years from 2010-2015).

Source A

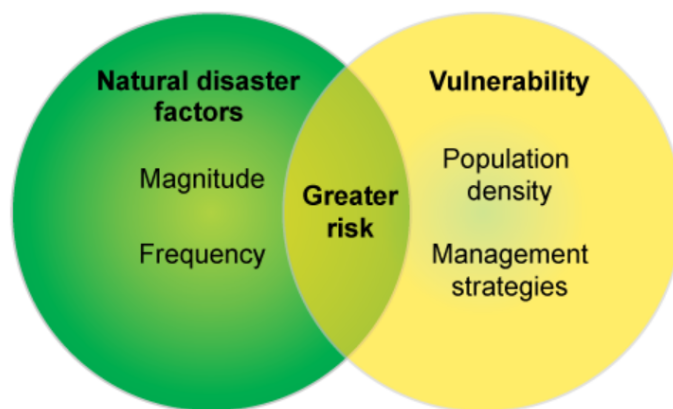
Use the timeline slider to show data.

Global deaths from natural disasters



Question 7 (4 marks)

With reference to **Source B** below, **describe** the relationship between natural disaster factors and vulnerability.



B *I* | ← → | x₂ x² | ☰ ☷ | Ω Σ | Styles - | 📄 ↕



Question 8 (6 marks)

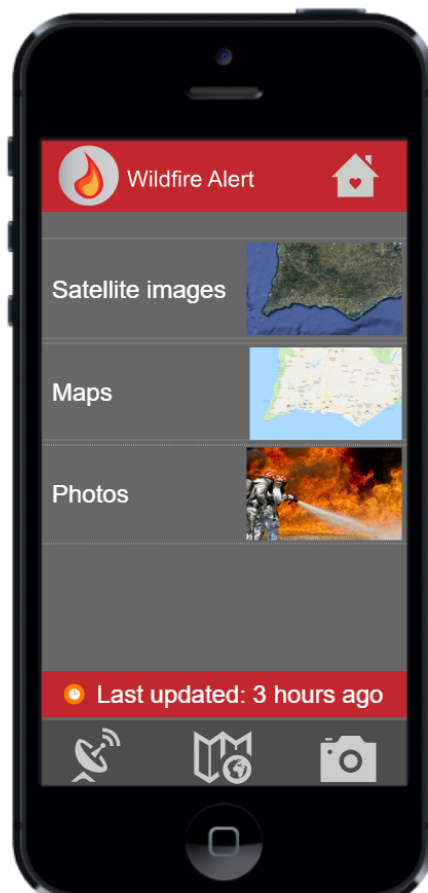
The mobile phone app shown in **Source C** provides users with information on wildfires across Portugal. It gives access to satellite images, maps and photos taken by other app users.

Use the mobile phone app to show more information.



Wildfire Alert

The app to keep you safe



© Brilliant Learning



Wildfire Alert

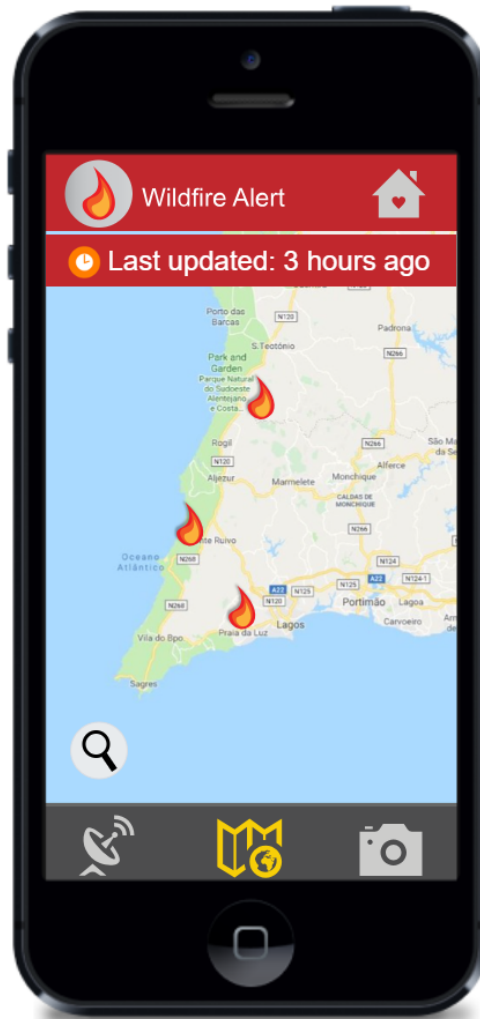
The app to keep you safe





Wildfire Alert

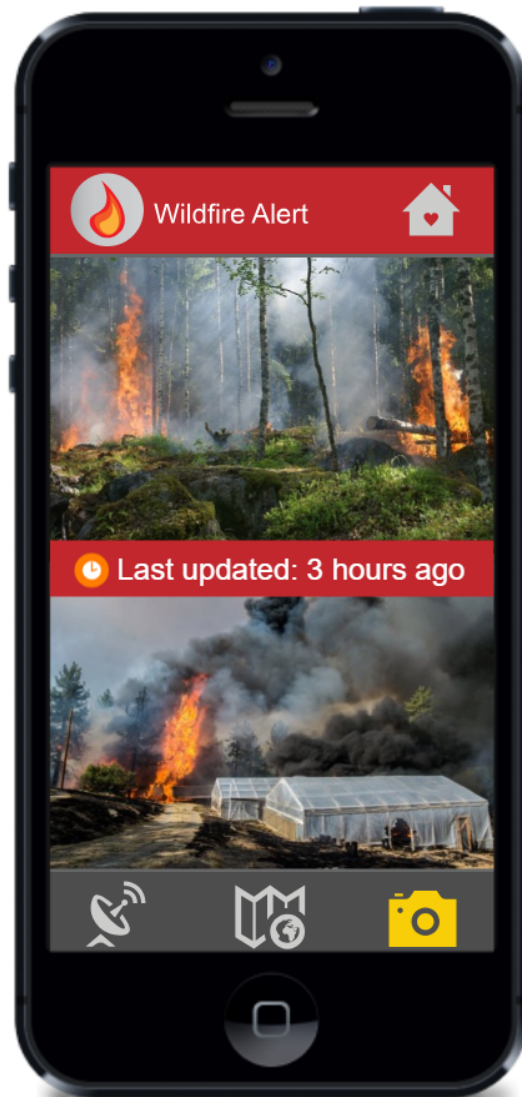
The app to keep you safe





Wildfire Alert

The app to keep you safe





Question 8a (3 marks)

Describe one value of the Wildfire Alert app for local residents.

B *I* | ← → | x_2 x^e | $\frac{1}{2}$ $\frac{3}{4}$ | Ω Σ | Styles ▾ | 📱





Question 8b (3 marks)

Describe one limitation of the Wildfire Alert app for local residents.

B *I* | ← → | U x_n x^2 | ☰ ☷ | Ω Σ | Styles ▾ | 📄 ↕

Question 9 (24 marks)

Write a well-structured essay to answer the following question. **To what extent** has technology reduced the impacts of natural disasters in highly industrialized countries (HICs)?

In your essay, you must:

- use examples from your MYP studies
- consider different perspectives/factors.

B *I* | ← → | x₂ x² | ☰ ☷ | Ω Σ | Styles ▾ | 📱