

GCSE Geography A – J382

Climate Graphs Activity

Instructions and answers for teachers

These instructions should accompany the OCR resource 'Climate Graphs activity' which supports OCR GCSE Geography A.

The screenshot shows a worksheet titled 'GCSE Geography A – J382 Climate Graphs Activity'. It includes a matching task with two columns. The left column lists terms: Temperature in C°, Climate, Rainfall in millimetres, Weather, Climate graph, Line graph, and Bar graph. The right column lists descriptions: Average weather conditions for a particular place (calculated over a number of years), A graph which shows temperature and rainfall changes throughout the year for a particular place, Used on a climate graph to show the rainfall, A measure of how hot or cold a place is, Day to day variations in temperature and rainfall, Used on a climate graph to show the temperature, and A measure of the amount of precipitation a place receives. The OCR logo is visible in the bottom right corner.

Term	Description
Temperature in C°	Average weather conditions for a particular place (calculated over a number of years)
Climate	A graph which shows temperature and rainfall changes throughout the year for a particular place
Rainfall in millimetres	Used on a climate graph to show the rainfall
Weather	A measure of how hot or cold a place is
Climate graph	Day to day variations in temperature and rainfall
Line graph	Used on a climate graph to show the temperature
Bar graph	A measure of the amount of precipitation a place receives

The Activity:

This lesson element focuses on the topic of Climate Graphs, the information they represent and how they can be presented.



This activity offers an opportunity for English skills development.



This activity offers an opportunity for maths skills development.

Associated materials:

'Climate Graphs Activity' Lesson Element learner activity sheet.

What's in a climate graph?

After completing this activity learners should be more familiar with climate vocabulary, constructing a climate graph and applying these skills to exam questions.

Specification links

Extreme environments 1.1; Hot deserts 1.1, 3.1, 3.2; Mountain environments 1.1

Starter

Show a series of photographs/images/video clips representing climates in extreme environments and ask students to write down words to describe these – discuss and select those best suited to extreme climates.

Introduce new information

Matching exercise with climate vocabulary. This can be done as a worksheet or a card sorting exercise.

Task 1: Answers

Temperature in C°

A measure of how hot or cold a place is

Climate

Average weather conditions for a particular place (calculated over a number of years)

Rainfall in millimetres

A measure of the amount of precipitation a place receives

Weather

Day to day variations in temperature and rainfall

Climate graph

A graph which shows temperature and rainfall changes throughout the year for a particular place

Line graph

Used on a climate graph to show the temperature

Bar graph

Used on a climate graph to show the rainfall

Big picture link

Extreme environments 1.1; Hot deserts 1.1, 3.1, 3.2; Mountain environments 1.1

Development

Drawing climate graphs exercise (use the provided [Climate Graph Template](#))

Construct a climate graph using Alice Springs (hot desert) statistics (http://www.bom.gov.au/climate/averages/tables/cw_015590.shtml).

Compare with Erriba (Tasmania), mountain environment statistics (http://www.bom.gov.au/climate/averages/tables/cw_091119.shtml)

Ask students to describe the temperature and rainfall in the Australian Desert.

Consolidate

Ask students to answer the real exam question below, using their knowledge and skills from the last activities:

(c) Study Fig. 1C.

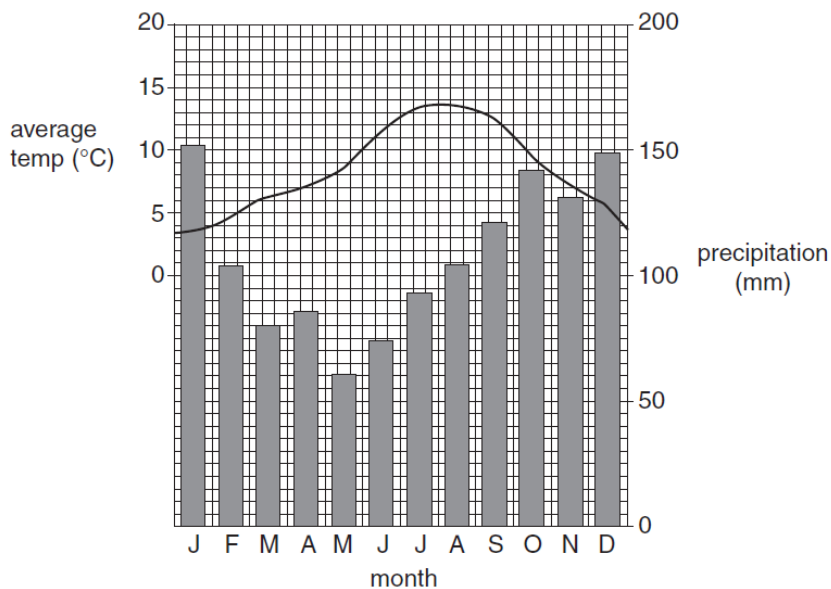


Fig. 1C Climate graph of Mingulay

You will have studied an area of hot desert.
Compare the climate of the hot desert area which you have studied with the climate of Mingulay.
In your answer use data from Fig. 1C and your own knowledge.

June 2011 Foundation question (6 marks)



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