

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS
GCSE**

B561/02

GEOGRAPHY B

**Sustainable Decision Making (SDM)
(Higher Tier)**

TUESDAY 4 JUNE 2013: AFTERNOON

DURATION: 1 hour

plus your additional time allowance

MODIFIED ENLARGED 24pt

Candidate forename		Candidate surname	
-------------------------------	--	------------------------------	--

Centre number						Candidate number				
--------------------------	--	--	--	--	--	-----------------------------	--	--	--	--

Candidates answer on the Question Paper.

OCR SUPPLIED MATERIALS:

None

OTHER MATERIALS REQUIRED:

**Resource Booklet (B561/01/02/RB –
previously supplied)**

READ INSTRUCTIONS OVERLEAF

INSTRUCTIONS TO CANDIDATES

- **Write your name, centre number and candidate number in the boxes on the first page. Please write clearly and in capital letters.**
- **Use black ink. HB pencil may be used for graphs and diagrams only.**
- **Answer ALL the questions.**
- **Read each question carefully. Make sure you know what you have to do before starting your answer.**
- **Write your answer to each question in the space provided. If additional space is required, you should use the lined pages at the end of this booklet. The question number(s) must be clearly shown.**

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- You will be awarded marks in Questions 2, 4 and 5 for the quality of written communication of your answer.
- Resources 1–8 are contained in the Resource Booklet.
- The total number of marks for this paper is 40.
- Any blank pages are indicated.

SECTION A – THE BACKGROUND

QUESTION 1

USE RESOURCE 1 and your own knowledge.

Explain TWO reasons why people continue to live in areas of tectonic risk.

[4]

QUESTION 2

USE RESOURCE 2.

To what extent is there a link between magnitude and cost of damage? Use data from the table to support your answer. [6]

SECTION B – THE OPTIONS

QUESTION 3

USE RESOURCE 3.

(a) Briefly explain the terms:

Emergency response

Monitoring

[2]

(b) Suggest why countries respond to earthquakes in different ways.

[4]

QUESTION 4

USE RESOURCES 4, 5(a), 5(b) AND 5(c).

Use information from Resources 5(a), 5(b) and 5(c) and your own knowledge.

‘Earthquakes don’t kill people, buildings do!’

To what extent does the information in Resources 5(a), 5(b) and 5(c) support this view? [8]

SECTION C – THE DECISION

QUESTION 5

Use RESOURCES 6, 7(a), 7(b) and 8, plus any other information from the resource booklet and your own knowledge.

There are hundreds of faults that run through California. One of the most dangerous is the Hayward Fault, which runs through the San Francisco Bay Area.

The Californian Earthquake Authority (CEA) needs to decide the best way to reduce the impact of any earthquake in the Bay Area, with one of their aims being to keep communities sustainable.

You have been asked to recommend the best way for them to spend their time and money. Three possible options have been suggested.

OPTION 1

To rebuild all important facilities such as hospitals, fire stations and power stations away from the fault line.

OPTION 2

To make all new buildings meet existing strict building codes and make all older buildings earthquake proof.

OPTION 3

To improve the awareness of people in the Bay Area about the risk of earthquakes and tell them how to prepare for an earthquake.

TASK

You have been asked to write a report to the Californian Earthquake Authority (CEA) about reducing the impact of any earthquake in the Bay Area.

You should:

Identify ONE option which you recommend is the best way for the CEA to reduce the impact of any earthquake in the Bay Area.

Explain why your option is BETTER THAN THE OTHER TWO in keeping communities socially and economically sustainable.

Explain why choosing only one of the options is unlikely to be effective on its own. [16]

Chosen option: _____

[illegible]

[illegible]

[illegible]

[illegible]

END OF QUESTION PAPER

ADDITIONAL ANSWER SPACE

If additional answer space is required, you should use the following lined pages. The question number(s) must be clearly shown in the margins.

Copyright Information

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website (www.ocr.org.uk) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact the Copyright Team, First Floor, 9 Hills Road, Cambridge CB2 1GE.

OCR is part of the Cambridge Assessment Group; Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.

