

OXFORD CAMBRIDGE AND RSA EXAMINATIONS
GCSE

B561/01

GEOGRAPHY B

Sustainable Decision Making (SDM)
(Foundation Tier)

TUESDAY 4 JUNE 2013: Afternoon

DURATION: 1 hour
plus your additional time allowance

MODIFIED ENLARGED

Candidate forename		Candidate surname	
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Centre number						Candidate number				
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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 4 and 5(a) 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.

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SECTION A – THE BACKGROUND

QUESTION 1

USE RESOURCE 1(a).

(a) Name ONE tectonic hazard.

_____ [1]

USE RESOURCE 1(b).

(b) Give ONE reason why people live in areas of tectonic risk. Explain your answer.

Reason _____

Explanation _____

[2]

QUESTION 2

USE RESOURCE 2.

- (a) What was the **MAGNITUDE** of the most powerful earthquake shown?


_____ [1]

- (b) (i) Show the rank order of estimated deaths by putting these three locations into the table.

EASTERN SICHUAN

HOKKAIDO

MAULE

ESTIMATED DEATHS	LOCATION OF EARTHQUAKE
High	
	
Low	

[1]

- (ii) Which earthquake shown in Resource 2 caused the highest cost of damage?

_____ [1]

- (c) Suggest why the largest magnitude earthquake did not cause the highest cost of damage. You can use information about other earthquakes in Resource 2 to support your answer.**

[4]

SECTION B – THE OPTIONS

QUESTION 3

USE RESOURCE 3.

- (a) Complete the table by matching the correct terms to their descriptions. Choose from the following list.

MONITORING

RECOVERY

PREVENTION

EMERGENCY RESPONSE

TERM	DESCRIPTION
	Short-term emergency actions
	Collecting and recording information about earth movements

[2]

(b) Explain how people can PREPARE for an earthquake.

[4]

(c) Reconstruction is important after a disaster.

Suggest TWO things which could be done to rebuild a community after a disaster.

[2]

QUESTION 4

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

The three earthquakes in RESOURCES 5(a), 5(b) AND 5(c) were of similar magnitudes.

Use information from the resources to DESCRIBE and EXPLAIN the differences in the number of deaths caused by these earthquakes.

[6]

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

- (a) Choose ONE of the options and give reasons why you think this would be the best way for the Bay Area to plan for the problems that a large earthquake could cause.**
- (b) Give ONE possible disadvantage of your chosen option.**
- (c) Give ONE advantage of each of the other two options.**
- (d) Suggest a possible disadvantage of choosing ONLY one option.**

(a) Chosen Option Number _____

Reasons

[illegible]

(b) ONE possible disadvantage of your chosen option

[3]

(c) ONE advantage of each of the other two options

Option number _____

Advantage _____

Option number _____

Advantage _____

[4]

(d) A possible disadvantage of choosing only one option.

Disadvantage _____

_____ **[3]**

END OF QUESTION PAPER

ADDITIONAL ANSWER SPACE

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

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