

**GENERAL CERTIFICATE OF SECONDARY EDUCATION
GEOGRAPHY B**

B561/02

Sustainable Decision Making (SDM) (Higher Tier)

Candidates answer on the question paper.

OCR supplied materials:

None

Other materials required:

- Resource booklet (B561/01/02/RB – previously supplied)

**Monday 13 June 2011
Morning**

Duration: 1 hour



Candidate forename		Candidate surname	
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Centre number						Candidate number				
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INSTRUCTIONS TO CANDIDATES

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. Pencil may be used for graphs and diagrams only.
- 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.
- Answer **all** the questions.
- Do **not** write in the bar codes.

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**.
- This document consists of **12** pages. Any blank pages are indicated.

This paper has been pre modified for carrier language

SECTION A: THE BACKGROUND

Question 1

Use **Resource 1**.

- (a) Wooden and rock groynes reduce longshore drift.

Describe how groynes reduce longshore drift.

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..... [2]

- (b) Explain why wooden and rock groynes have a different lifespan.

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..... [2]

[Total: 4]

SECTION B: THE OPTIONS

Question 3

Use **Resources 3** and **4**.

Coastal erosion happens at Happisburgh. Stakeholders have different opinions on coastal protection.

Identify **one** stakeholder who is in favour of coastal protection and **one** who is against it. Explain their reasons using your own words.

Stakeholder **in favour**:

Stakeholder's reasons:

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Stakeholder **against**:

Stakeholder's reasons:

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[6]

[Total: 6]

SECTION C: THE DECISION

Question 5

Use **Resources 1, 5, 6, 7 and 8**, plus your own knowledge and any ideas from other resources in the booklet.

People have tried to control coastal erosion for many hundreds of years, with varied success. The council has to make a sustainable decision about what to do at Happisburgh. They are considering **three** possible options:

Option 1

Build a new sea wall and use rip-rap and rock armour at the base of the cliff.

Option 2

Use beach replenishment and repair and maintain the existing wooden groynes and revetments.

Option 3

Use managed retreat of the coast and give people compensation for their losses.

Task

Explain which option you think would offer the council the most sustainable way to manage the coastline at Happisburgh.

In your answer you should:

- State your chosen option
- Explain why you think your chosen option is more sustainable than each of the other options
- Explain any disadvantages of your chosen option
- Give **one** possible advantage of each of your rejected options.

Chosen Option Number:

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..... [16]

[Total: 16]

Section C: 16 marks

TOTAL MARKS FOR PAPER: 40

Additional pages:

If you use these lined pages to complete the answer(s) to any question(s), the question number(s) must be clearly shown.

A large area of lined paper for writing answers. It features a vertical solid line on the left side, creating a margin. The rest of the page is filled with horizontal dotted lines, providing a guide for writing. The lines are evenly spaced and extend across the width of the page.

A vertical solid line is positioned on the left side of the page. From this line, 25 horizontal dotted lines extend across the page, creating a series of rows for writing.

A vertical solid line is positioned on the left side of the page. From this line, 25 horizontal dotted lines extend across the page, creating a series of rows for writing.

A large area of the page is reserved for writing, featuring a solid vertical line on the left side and horizontal dotted lines extending across the page.



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