

91243



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

2

SUPERVISOR'S USE ONLY

Level 2 Geography, 2013

91243 Apply geography concepts and skills to demonstrate understanding of a given environment

9.30 am Thursday 21 November 2013

Credits: Four

Achievement	Achievement with Merit	Achievement with Excellence
Apply geography concepts and skills to demonstrate understanding of a given environment.	Apply geography concepts and skills with precision to demonstrate in-depth understanding of a given environment.	Apply geography concepts and skills with precision to demonstrate comprehensive understanding of a given environment.

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should attempt ALL the questions in this booklet.

Pull out Resource Booklet 91243R from the centre of this booklet.

If you need more room for any answer, use the extra space provided at the back of this booklet.

Check that this booklet has pages 2–14 in the correct order and that none of these pages is blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

TOTAL

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You are advised to spend one hour answering the questions in this booklet.

QUESTION ONE: Maps, Photographs, and Satellite Images

Refer to **Resources A and B** on page 2 of the resource booklet when answering (a) to (c).

(a) Name the **FOUR countries** that make up the United Kingdom.

(1) _____

(2) _____

(3) _____

(4) _____

(b) What is the **latitude AND longitude** in degrees and minutes for Newcastle upon Tyne?

(c) What is the **total** number of visitors to London each year?

Refer to **Resources C and D** on page 3 of the resource booklet when answering (d) to (f).

(d) Fully describe the **pattern** of airports and major roadways around London.

Include specific evidence from Resources C and D, and use geographic terminology within your answer.

- (e) Fully explain the **issues** Heathrow Airport is currently facing.

Include specific evidence from Resources C and D, and use geographic terminology within your answer.

- (f) Name the **river** that flows through London.

Refer to **Resources C, E, F, and G** on pages 3–7 of the resource booklet when answering (g).

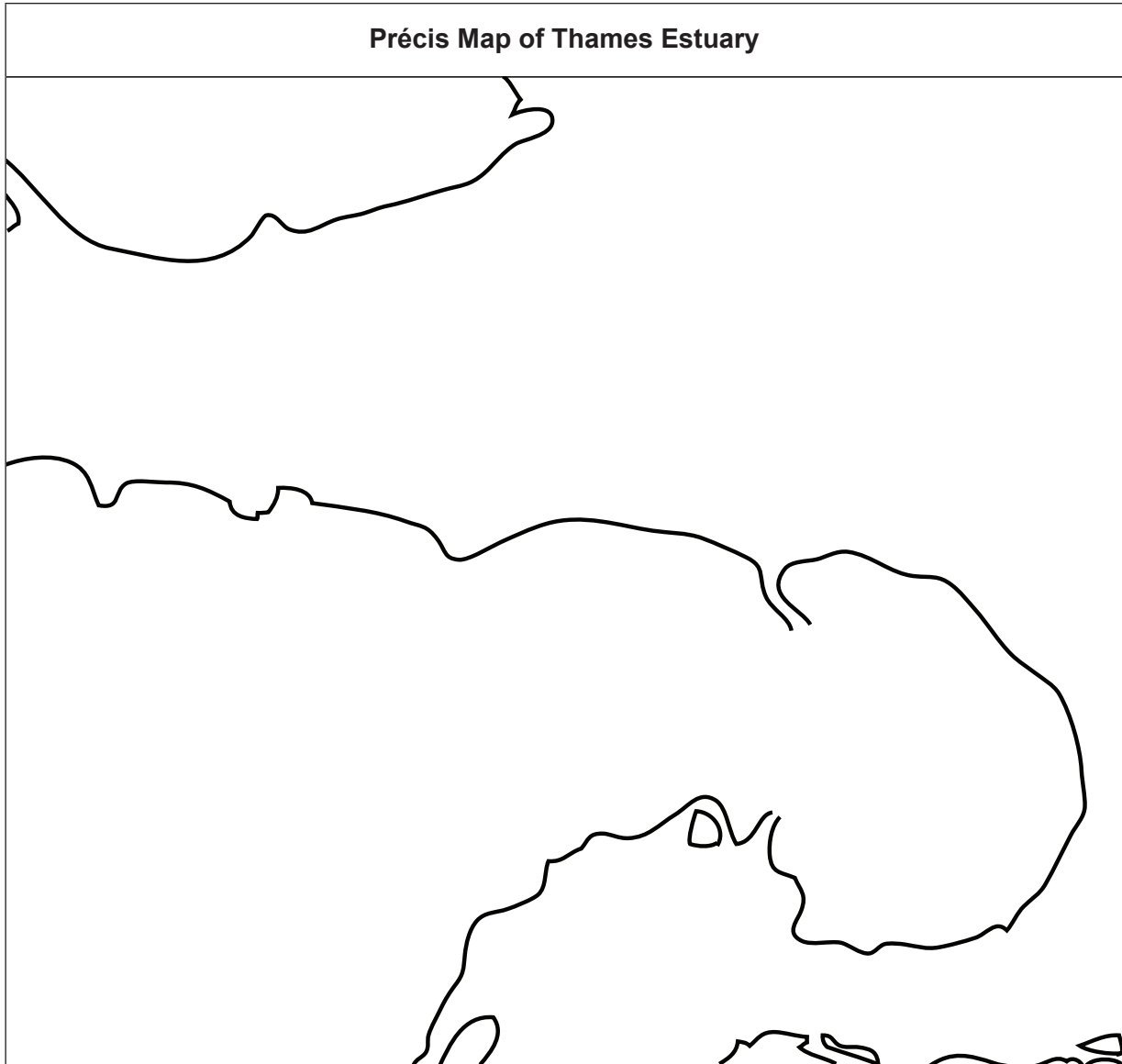
- (g) (i) Name the **location** marked **A** on Resource F.

- (ii) Name the **area of land** marked **B** on Resource F where “Foster’s Estuary Airport” is to be located.

- (iii) Name the **city** marked **C** on Resource F.

Refer to **Resource G** on pages 6 and 7 of the resource booklet when answering (h) to (k).

- (h) On the **précis map** below:
- (i) Complete Yantlet Creek (GR 857783) to its source in Stoke Marshes
 - (ii) Locate and label the settlement of Grain
 - (iii) Locate and label the nature reserve at Northward Hill
 - (iv) Locate and label the area of marsh on the peninsula between Leigh Beck and Canvey Point.



Key:

	Yantlet Creek
	Grain
	Nature reserve
	Marsh
	Area of "Foster's Estuary Airport" (see (i) on page 5)

The two major options for the development of London's airports are as follows:

- (1) Building a third runway at the present Heathrow Airport location in west London.
- (2) Building "Foster's Estuary Airport" as part of the proposed Thames Hub on the Isle of Grain, at the mouth of the Thames River.

(i) Use the information below to accurately locate and label on the précis map on page 4, the **land area** for the proposed "Foster's Estuary Airport":

- the area will be rectangular in shape
- the area will be 7.5 km by 4.5 km
- the airport will cover an area enclosed by the grid references:
820805 895805
820760 895760
- the airport will be located north of the A228
- the airport will be centred at the mouth of the Yantlet Creek (GR 857783).

(j) Name TWO **cultural** features that will have to be removed for the airport's construction.

(1) _____

(2) _____

(k) Name TWO **natural** features that will be affected by the airport's construction.

(1) _____

(2) _____

QUESTION TWO: Graphs, Tables, and Statistics

Refer to the table below when answering (a) to (c).

Total Passenger Movements for Five Selected Airports (2000–2011)			
Airport	Total Passenger Movements (TPM) (millions of passengers per year)		
	2000	2005	2011
Heathrow, UK	64.6	67.3	69.4
Amsterdam, Netherlands	39.6	44.2	49.7
Frankfurt, Germany	49.4	52.2	49.5
Dubai, United Arab Emirates	<i>Data unavailable</i>	24.8	50.2
Hong Kong	32.8	40.3	52.7

- (a) Construct a **multi-bar graph, or graphs**, to compare the growth in “Total Passenger Movements” for the five selected airports, from 2005 to 2011.

Title:	

- (b) Which airport experienced the greatest **increase** in "Total Passenger Movements" from 2005 to 2011, and by what number did it increase?

Airport: _____

Number: _____

- (c) Which airport experienced the greatest **decrease** in "Total Passenger Movements" from 2005 to 2011, and by what number did it decrease?

Airport: _____

Number: _____

Refer to **Resource H** on page 8 of the resource booklet when answering (d).

- (d) Fully describe the **projected changes** to weekly departures from Heathrow Airport from 2011 to 2030 if runway capacity was **unlimited**.

Include specific evidence from Resource H, and use geographic terminology within your answer.

Part (d) continues on the next page

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The examination continues on the following page.**

QUESTION THREE: Application of Geographic Concepts

Passenger demand for all London's airports is forecast to increase from 140 million passengers in 2010 to 400 million passengers per year by 2050.

However, the solution to London's airport capacity issues is not simple or obvious. Any plan has advantages and disadvantages, which will affect both people and the environment.

Refer to **Resources J, K, and L** on pages 9–11 of the resource booklet, as well as any other resources, when answering (a).

- (a) Complete the table below by listing the **advantages** (positives) AND **disadvantages** (negatives) of building Heathrow's third runway and of building "Foster's Estuary Airport".

Building Heathrow's third runway	
Advantages:	Disadvantages:
Building "Foster's Estuary Airport"	
Advantages:	Disadvantages:

Read the geographic concepts below, and refer to them, your table on page 10, as well as **ALL of the resources** on pages 2–11 of the resource booklet when answering (b).

Geographic Concepts

Environments can be natural and cultural. They have particular characteristics and features, which can be the result of natural and / or cultural processes.

Interaction involves elements of an environment affecting each other. Landscapes are the visible outcome of interactions. Interaction can bring about environmental change.

Sustainability involves adopting ways of thinking and behaving that allow individuals, groups, and societies to meet their needs and aspirations without preventing future generations from meeting theirs.

- (b) As a geographer, you have been asked to **recommend** which airport option should be constructed.

Circle ONE option in the box below.

Heathrow's third runway	Foster's Estuary Airport
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Fully explain the reasons for your choice.

Include specific evidence from ALL of the resources, incorporate at least ONE geographic concept from the list above, and use geographic terminology within your answer.

Part (b) continues on the next page

**Extra space if required.
Write the question number(s) if applicable.**

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QUESTION
NUMBER

Lined area for student response with a vertical line for question numbers.

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