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NEW ZEALAND QUALIFICATIONS AUTHORITY  
MANA TOHU MĀTAURANGA O AOTEAROA

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## Level 1 Geography, 2017

### 91010 Apply concepts and basic geographic skills to demonstrate understanding of a given environment

9.30 a.m. Thursday 23 November 2017  
Credits: Four

Achievement	Achievement with Merit	Achievement with Excellence
Apply concepts and basic geographic skills to demonstrate understanding of a given environment.	Apply concepts and basic geographic skills to demonstrate in-depth understanding of a given environment.	Apply concepts and basic geographic skills 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 91010R 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 2–15 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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**QUESTION ONE: ENVIRONMENTS AND FEATURES**

Read the following geographic concept and refer to it, as well as **Resources A–D** on pages 2–4 of the resource booklet, when answering (a).

**Geographic Concept**

**Environments** may be natural and / or cultural. They have particular characteristics and features which can be the result of natural and / or cultural processes. The particular characteristics of an environment may be similar to or different from another environment.

- (a) (i) Give a geographic description of the natural features of Te Araroa.

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- (ii) Describe the cultural environment of Te Araroa.

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- (iii) What is the name and height of the flat-topped hill immediately south of Te Araroa?

Name: \_\_\_\_\_

Height: \_\_\_\_\_

- (iv) In which compass direction does the Karakatuwhero River flow?

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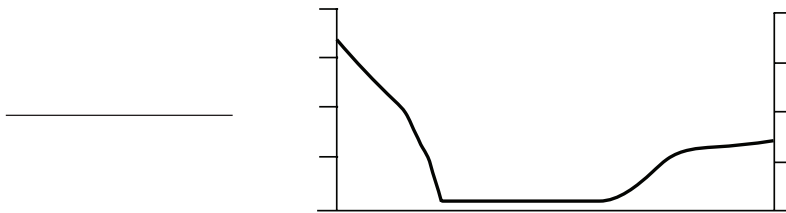


Refer to **Resource D** on page 4 of the resource booklet when answering (c).

Two Year 11 geography students were asked to use Resource D to draw a cross section from the “Historic Māori pā” site at 683219, to the “Spot Height” at 704199. One of the students drew the cross section the wrong way round, the other drew it correctly.

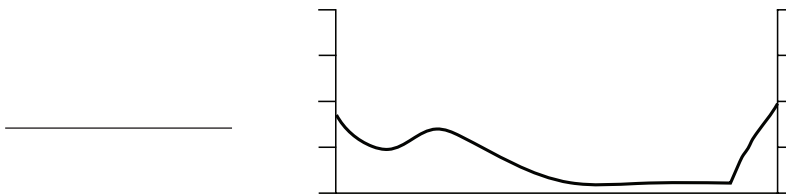
- (c) Choose **Cross Section A** OR **Cross Section B** below to mark on appropriately and label:
- (i) The two grid references that start and end the cross section
  - (ii) A label for the vertical scale
  - (iii) Waipirita Stream
  - (iv) Karakatuwhero Road.

**Cross Section A (across the Karakatuwhero River from 683219 to 704199)**



*If you need to redo this cross section, use the appropriate outline on page 12.*

**Cross Section B (across the Karakatuwhero River from 683219 to 704199)**



## QUESTION TWO: GEOGRAPHIC SKILLS AND CHANGE

Read the following geographic concept and refer to it, as well as **Resource F** on page 6 of the resource booklet, when answering this question.

### Geographic Concept

**Change** involves any alteration to the natural or cultural environment. Change can be spatial and/or temporal. Change is a normal process in both natural and cultural environments. It occurs at varying rates, at different times, and in different places. Some changes are predictable, recurrent or cyclic, while others are unpredictable or erratic. Change can bring about further change.

Geographers use both maps and photographs when studying change in the environment. Resource F shows two photographs of the same stretch of the Karakatuwhero River (AR6920), taken 10 years apart.

- (a) Fully explain TWO changes that have occurred between 2004 and 2014.

Include specific evidence from Resource F to support to your answer.

Change (1): \_\_\_\_\_

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Change (2): \_\_\_\_\_

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Refer to **Resource G** on page 7 of the resource booklet, when answering (b).

- (b) Construct a percentage bar graph to show the age distribution of the population of Te Araroa/East Cape, using statistics from Resource G.

<b>Title:</b>


**Key:**


*If you need to redo this graph, use the grid on page 13.*

Refer to **Resource H** on page 7 of the resource booklet, when answering (c).

- (c) Calculate the percentage of East Cape over-15-year-olds who have a school or post-school qualification.

\_\_\_\_\_

There are some differences between the age structure of the New Zealand population and the Te Araroa/East Cape population.

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- (d) Describe TWO differences between the age group structure of the Te Araroa/East Cape population and the New Zealand population.

Explain why EACH difference occurs, using statistical evidence from Resource G, and information from any of the other resources, to support your answer.

Difference (1): \_\_\_\_\_

\_\_\_\_\_

Reason: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Difference (2): \_\_\_\_\_

\_\_\_\_\_

Reason: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

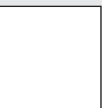
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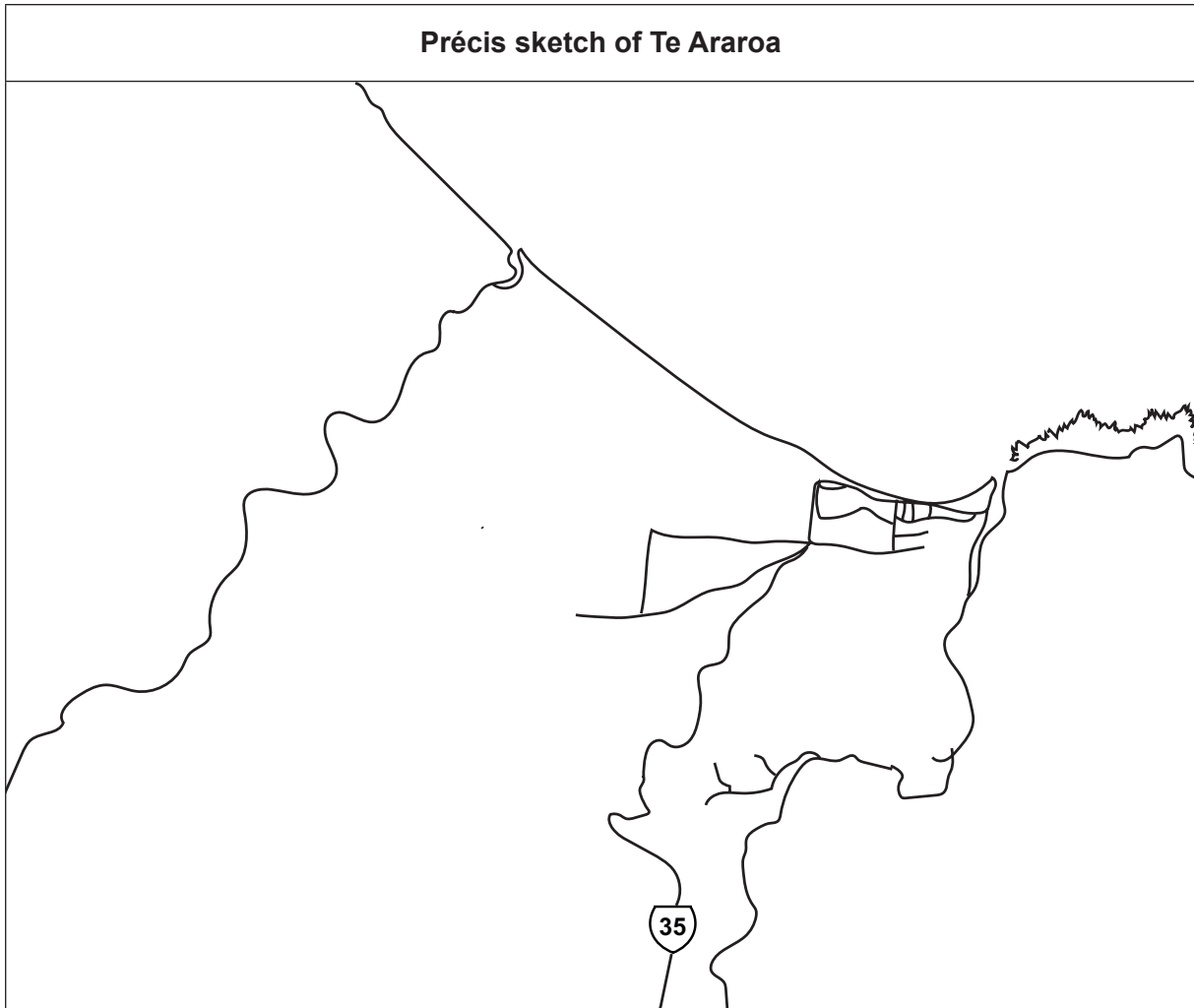
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### QUESTION THREE: MAPPING SKILLS AND SUSTAINABILITY

Refer to **Resources D** and **E** on page 4 of the resource booklet, when answering (a).

- (a) Use the **précis sketch** and the key below to locate the following:
- (i) Te Araroa Road: from the intersection with Shortcut Road to touch the frame at 695241
  - (ii) the area of swamp found in AR6922
  - (iii) Hine Tokata Rock.



**Key:**

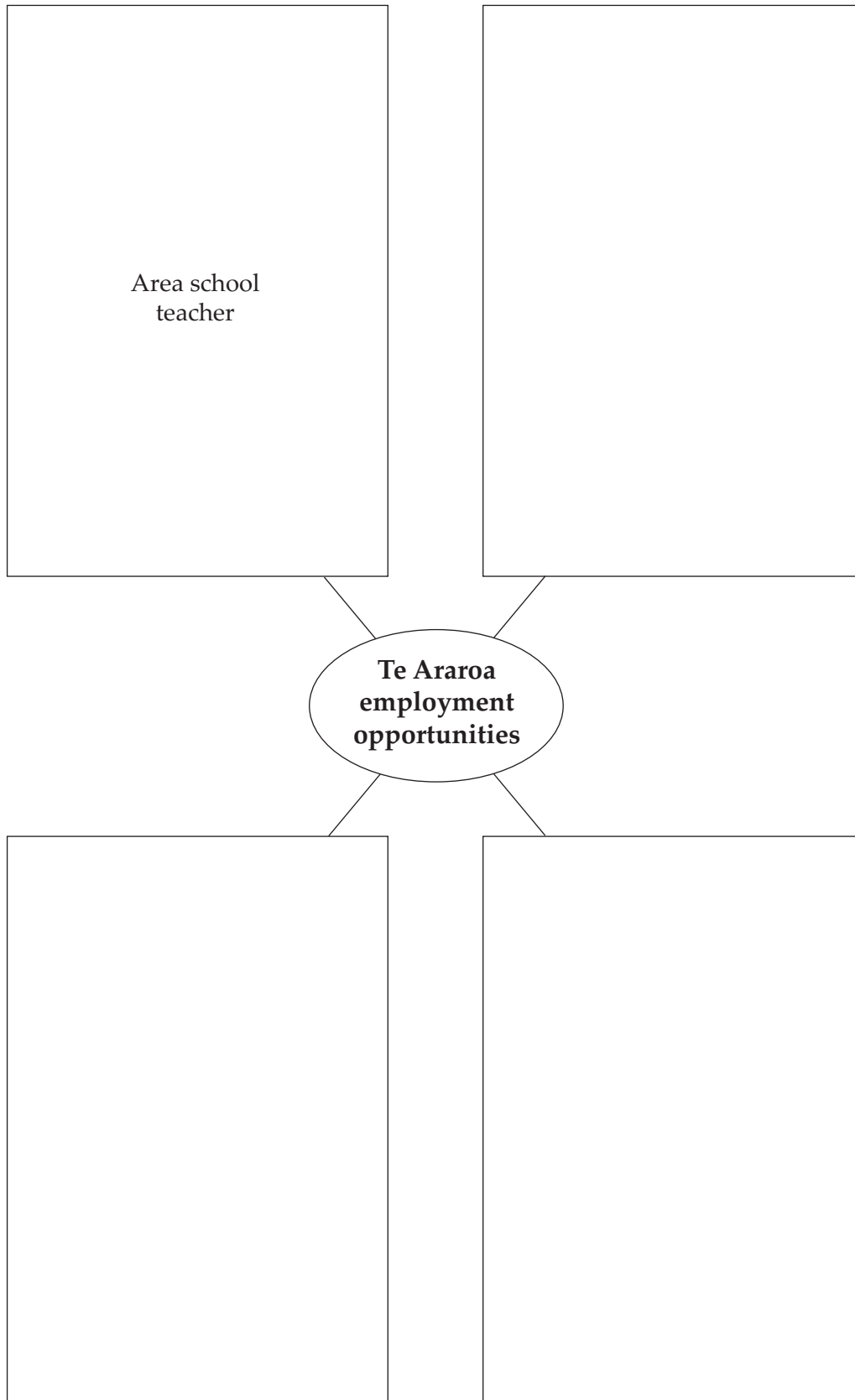
	Te Araroa Road: from the intersection with Shortcut Road to touch the frame at 695241
	Area of swamp found in AR6922
	Hine Tokata Rock



Refer to **Resources A–K** on pages 2–10 of the resource booklet, when answering (b).

- (b) Complete the star diagram below to show FOUR current paid employment opportunities available to Te Araroa residents.

*Note: The first one has been done for you.*

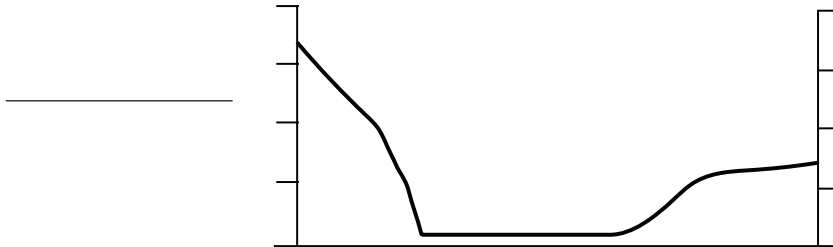
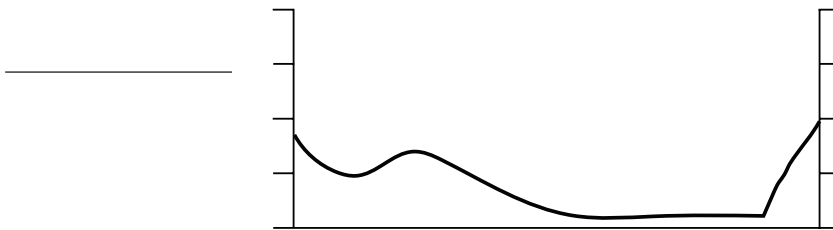







**SPARE CROSS SECTION**

If you need to redo the cross section from Question One (c), complete it on the appropriate outline below. Make sure it is clear which answer you want marked.

**Cross Section A (across the Karakatuwhero River from 683219 to 704199)****Cross Section B (across the Karakatuwhero River from 683219 to 704199)**

**SPARE GRID**ASSESSOR'S  
USE ONLY

If you need to redo the percentage bar graph from Question Two (b), complete it on the grid below. Make sure it is clear which answer you want marked.

<b>Title:</b>


**Key:**

