



For Supervisor's use only

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90767



NEW ZEALAND QUALIFICATIONS AUTHORITY  
MANA TOHU MĀTAURANGA O AOTEAROA



National Certificate of Educational Achievement  
TAUMATA MĀTAURANGA Ā-MOTU KUA TAEA

## Level 2 Science, 2006

### 90767 Describe New Zealand's geological history

Credits: Three

2.00 pm Tuesday 28 November 2006

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 answer ALL parts of the question in this booklet.

If you need more space for any answer, use the page(s) provided at the back of this booklet and clearly number the question.

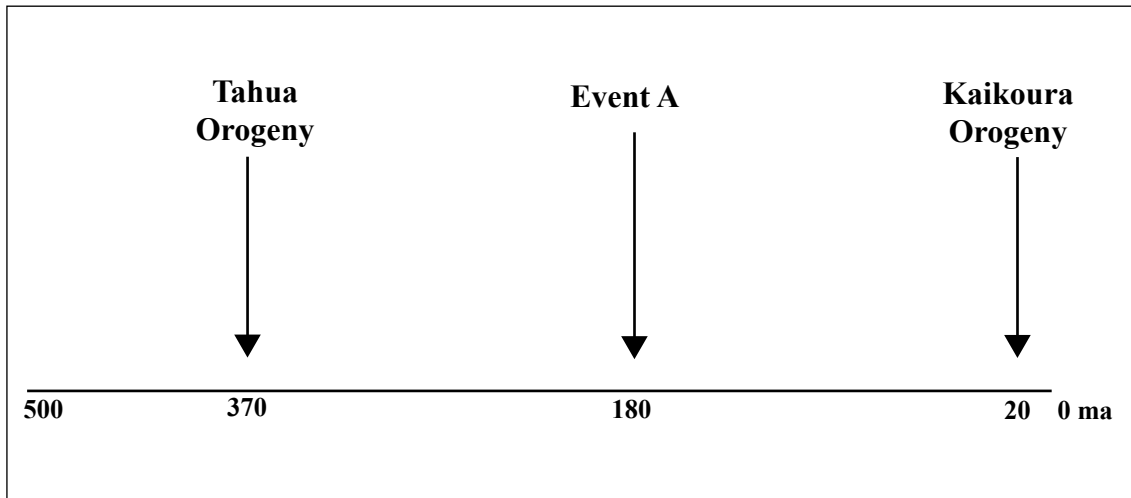
Check that this booklet has pages 2–6 in the correct order and that none of these pages is blank.

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

For Assessor's use only		Achievement Criteria	
Achievement		Achievement with Merit	Achievement with Excellence
Describe New Zealand's geological history.	<input type="checkbox"/>	Explain New Zealand's geological history.	<input type="checkbox"/>
Overall Level of Performance		<input type="checkbox"/>	

You are advised to spend 35 minutes answering the questions in this booklet.

**Timeline of New Zealand's geological history**  
(ma = millions of years ago)



**QUESTION ONE: NEW ZEALAND'S GEOLOGICAL HISTORY**

Refer to the diagram above:

- (a) Identify Event A.

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- (b) Explain the geological processes that caused the Kaikoura Orogeny.

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(c) Name the **main** sedimentary rocks that would have been formed at this time.

(d) Discuss what happened to form the Tasman Sea in terms of plate tectonics.

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Following the formation of the Tasman Sea, New Zealand became a peneplain during the Tertiary period.

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(e) Describe what a peneplain is.

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(f) Explain how the peneplain would have formed during the Tertiary period in New Zealand.

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(g) Discuss this statement with respect to:

- orogenic phases
- sedimentary (depositional) phases
- plate boundary types.

[illegible]

**Extra paper for continuation of answers if required.  
Clearly number the question.**

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Question  
number



