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NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA



For Supervisor's use only

Level 2 Science, 2007

90767 Describe New Zealand's geological history

Credits: Three

2.00 pm Wednesday 28 November 2007

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 the questions 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"/>	Discuss New Zealand's geological history.	<input type="checkbox"/>
Overall Level of Performance <input type="checkbox"/>					

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- (d) At the end of the Rangitata Orogeny the Tasman Sea started to form.

Using **plate tectonic** theory, explain how the Tasman Sea was formed.

- (e) State where the **youngest** rocks that underlie the Tasman Sea would be found.

QUESTION TWO : ICE AGESAssessor's
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- (a) Name ONE **key** landscape feature a geologist could observe to show that there had been an **ice age**.

- (b) Explain how the key feature you mentioned in 2(a) above, is formed by the action of ice.

QUESTION THREE : NEW ZEALAND'S DEPOSITIONAL HISTORYAssessor's
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There have been **three key** depositional periods in New Zealand's geological history. These are the rocks deposited before the Tuhua Orogeny, the rocks deposited before the Rangitata Orogeny, and the rocks deposited before the Kaikoura Orogeny.

- (a) Name the **key sedimentary** rock deposited during each period.

Pre-Tuhua Orogeny : _____

Pre-Rangitata Orogeny : _____

Pre-Kaikoura Orogeny : _____

- (b) Discuss the **significance** of these depositional periods to New Zealand's geological history. (You will need to relate these depositional phases to where the sediments came from, and where New Zealand was at those depositional times.)

Pre-Tuhua depositional period : _____

Pre-Rangitata depositional period : _____

Pre-Kaikoura depositional period : _____

[illegible]

