

90192



901920



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA



For Supervisor's use only

Level 1 Science, 2007

90192 Describe aspects of astronomy

Credits: Two

9.30 am 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 2–7 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 aspects of astronomy.	<input type="checkbox"/>	Explain aspects of astronomy.	<input type="checkbox"/>
Overall Level of Performance		<input type="checkbox"/>	

You are advised to spend 20 minutes answering the questions in this booklet.

QUESTION ONE: SOLAR SYSTEM

- (a) Describe what the rotation time (day) for a planet means.

- (b) Describe the term '**orbit**', and explain what causes it.

- (c) Describe the difference between planets and moons.

- (d) Describe what a spring tide is **and** discuss how spring tides are produced.

- (e) Explain how **neap tides** are produced. Include a diagram in the space provided to illustrate your explanation.



- (f) The photograph on the right shows a time lapse photograph of the South Celestial Pole taken over several hours. Describe what is meant by the South Celestial Pole, and explain what causes the effect shown in the photograph.

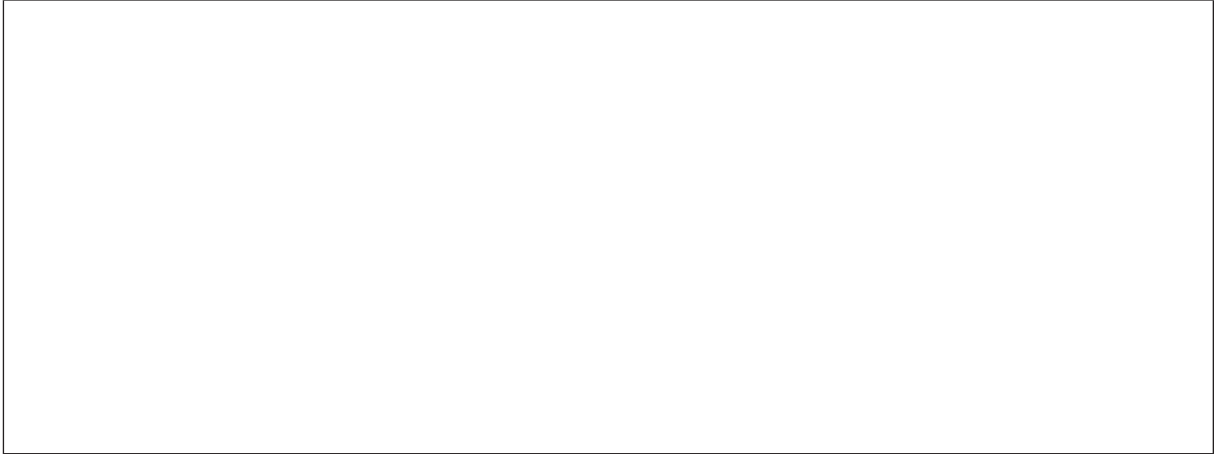
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<http://cosmos.swin.edu.au>

- (g) **Name** the southern hemisphere constellation that can be used to find the South Celestial Pole.

- (h) **Explain** how a solar eclipse occurs. You may use a correctly labelled diagram.

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(a) Discuss the **effects of weightlessness** on the human body when travelling in space.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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(a) Describe the meaning of the term ‘**astronomical unit**’.

[illegible]

