For Supervisor's use only

90192





Level 1 Science, 2005 90192 Describe aspects of astronomy

Credits: Two 9.30 am Friday 18 November 2005

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 2–9 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.

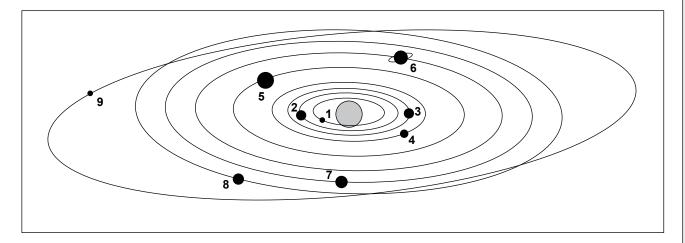
For Assessor's use only	Achievement Criteria				
Achievement	Achievement with Merit	Achievement with Excellence			
Describe aspects of astronomy.	Explain aspects of astronomy.	Discuss aspects of astronomy.			
Overall Level of Performance					

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

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QUESTION ONE: ORBITS

Our solar system has at least nine planets in orbit around the sun. The diagram below shows these orbits.



(a) Name the first four planets of our solar system	(a)	Name	the fire	st four	planets	of our	solar	systen
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(c)

(b)	Planetary orbits are not circular. What is the scientific name given to the shape of planetary
	orbits?

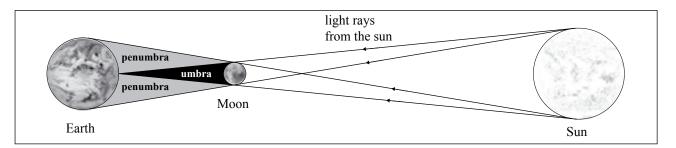
Explain what causes the Earth's seasons.						

nswer.		
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QUESTION TWO: ECLIPSES

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The picture below shows an eclipse.



(a) What type of eclipse is shown in the picture?

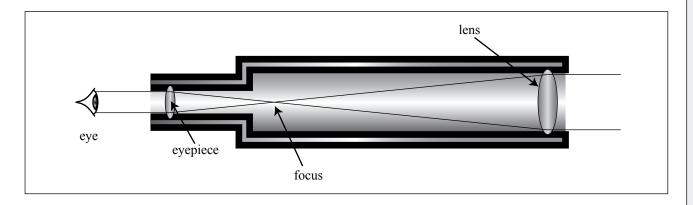
(b) Explain what happens to produce the type of eclipse shown above.

Discuss how a partial eclipse of the type shown on the previous page can occur. You should use a labelled diagram to assist your answer.	
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QUESTION THREE: TELESCOPES

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The diagram below shows a cross section of a common type of astronomical telescope.



Reflecting

Radio

(a) Circle the type of telescope shown in the diagram above.

Refracting

elescopes.		

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QUESTION FOUR: SPACE PROBES (a) Explain ONE reason why probes are sent into space. (b) Discuss TWO potential difficulties that need to be overcome in successfully sending a space probe to the surface of Mars.

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roblem one:	
roblem two:	

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

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Question number	