

Name:

Date:



# Science Assessment Year 5: Earth and Space

## The Solar System

1. Join up these labels to the correct planet, star or satellite:

Mars      Earth      Saturn      Mercury      Neptune

Sun      Uranus      Venus      Earth's Moon      Jupiter

5 marks

## Movements, Shape and Size

2. Roughly what shape are the Earth, Sun and Moon?

1 mark

3. Why does the Sun look like it is moving across the sky during the day?

1 mark

Total for this page

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4. Say whether the following statements are true or false:

a) The Earth orbits around the Sun. ....

b) The Sun is a planet. ....

c) The Earth is a satellite of the Moon. ....

d) The gravity of the Sun keeps the planets in their orbits. ....

4 marks

5. Explain in your own words what a satellite is.

.....

.....

1 mark

6. Explain in your own words what the idea of the heliocentric model is.

.....

.....

1 mark

7. How long does it take for:

a) The Earth to spin once on its axis?

.....

b) The Moon to go around the Earth once?

.....

c) The Earth to go round the Sun once?

.....

3 marks

Total for this page

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8. Describe how Earth and the other planets in our Solar System move around:

.....  
.....

1 mark

9. Describe where your country is in relation to the Sun when it is night time.

.....  
.....  
.....  
.....

1 mark

Total for  
this page

question	answer	marks	notes
<b>1. Join up these labels to the correct planet, star or satellite.</b>			
		5	5 marks available: <ul style="list-style-type: none"> <li>• 0 marks for 1 correct</li> <li>• 1 mark for 2 or 3 correct</li> <li>• 2 marks for 4 or 5 correct</li> <li>• 3 marks for 6 or 7 correct</li> <li>• 4 marks for 8 or 9 correct</li> <li>• 5 marks for all 10 correct</li> </ul>
<b>2. Roughly what shape are the Earth, Sun and Moon?</b>			
	<ul style="list-style-type: none"> <li>• Spherical</li> </ul>	1	
<b>3. Why does the Sun look like it is moving across the sky during the day?</b>			
	Example: <ul style="list-style-type: none"> <li>• The Earth spins on its axis so we move, not the Sun</li> <li>• As the Earth turns, it turns away and towards the Sun</li> </ul>	1	1 mark for answers that mention the Earth spinning.
<b>4. Say whether the following statements are true or false:</b>			
a	The Earth orbits around the Sun. <ul style="list-style-type: none"> <li>• True</li> </ul>	1	
b	The Sun is a planet. <ul style="list-style-type: none"> <li>• False</li> </ul>	1	
c	The Earth is a satellite of the Moon. <ul style="list-style-type: none"> <li>• False</li> </ul>	1	
d	The gravity of the Sun keeps the planets in their orbits. <ul style="list-style-type: none"> <li>• True</li> </ul>	1	
<b>5. Explain in your own words what a satellite is.</b>			
	<ul style="list-style-type: none"> <li>• A satellite is any object or body in space that orbits something else.</li> </ul>	1	
<b>6. Explain in your own words what the idea of the heliocentric model is.</b>			
	<ul style="list-style-type: none"> <li>• The heliocentric model is the idea that the Earth and planets revolve around the Sun at the centre of the Solar System because of its gravity.</li> </ul>	1	

question	answer	marks	notes
<b>7. How long does it take for:</b>			
a	1 mark for either of: <ul style="list-style-type: none"> <li>• 1 day</li> <li>• 24 hours</li> </ul>	1	
b	1 mark for of: <ul style="list-style-type: none"> <li>• 28 days</li> </ul>	1	
c	1 mark for either of: <ul style="list-style-type: none"> <li>• 1 year</li> <li>• 365 days</li> <li>• 365 <math>\frac{1}{4}</math> days</li> </ul>	1	
<b>8. Describe how Earth and the other planets in our Solar System move around.</b>			
	1 mark for answers that mention the word <b>orbit</b> : <ul style="list-style-type: none"> <li>• All the planets orbit the Sun at different distances. Mercury is the nearest and Pluto/Neptune is the furthest away.</li> <li>• Earth orbits the Sun and so do the other planets.</li> </ul>	1	Accept answers that mention a heliocentric model/system, even if the word 'orbit' is not there. Do not accept answers that say 'go round' the Sun as the scientific word 'orbit' should be used.
<b>9. Describe where your country is in relation to the Sun when it is night time.</b>			
	1 mark for facing away from the Sun (the Earth has spun on its axis and the country is on the side that is not facing the Sun).	1	