

Foundation Pathway

End of Topic Assessment

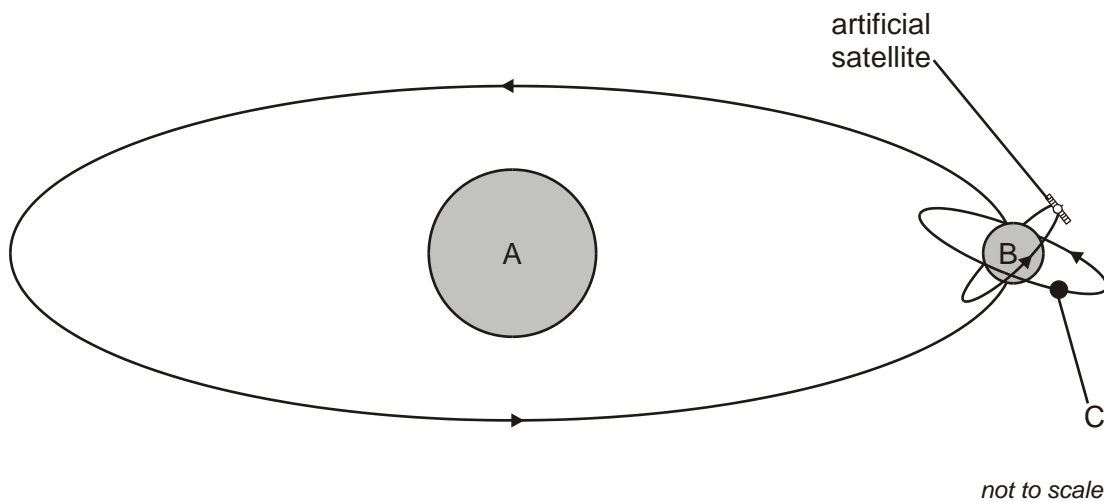
SPACE

Analysis and Targets

No.	Score	Below/On/Above	Target for next Assessment. How will you achieve it?
1	___/8		
2	___/4		
3	___/7		
4	___/5		
5	___/6		

Now complete the "Next Step" sheet you've been given and when finished attach it to the back of the paper.

1. The diagram below shows the Earth, the Sun, the Moon and an artificial satellite.



(a) Which letters, on the diagram, show the Earth, the Sun and the Moon?

the Earth

the Sun

the Moon

3 marks

(b) Give **one** use of a satellite.

.....
.....

1 mark

(c) Which of the following is a source of light?
Tick the correct box.

the Earth

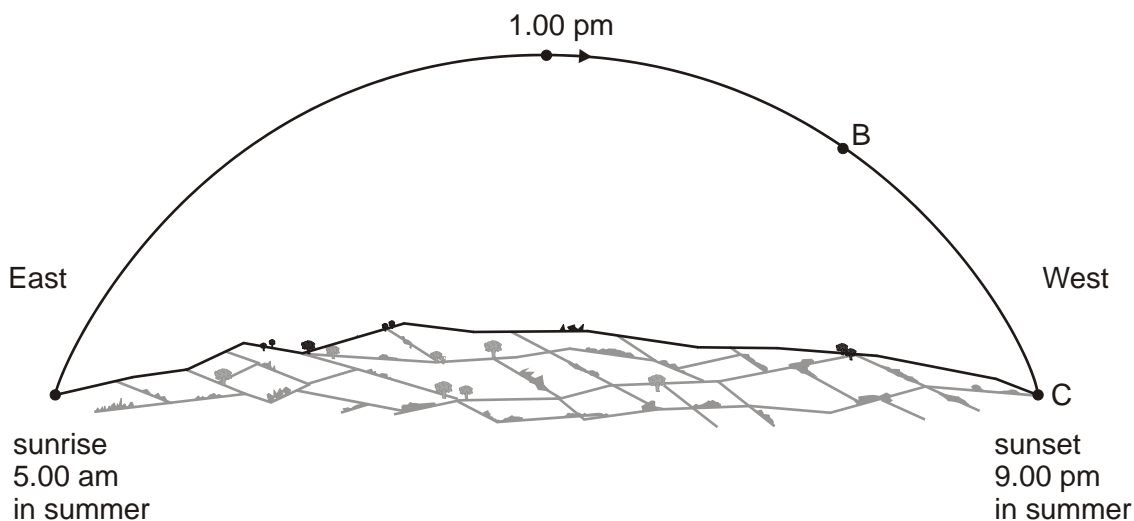
the Moon

the Sun

a satellite

1 mark

(d) The curve shows the path of the Sun in the sky from sunrise to sunset in England one day in **summer**.



(i) **On the curve**, mark the position of the Sun at 9.00 am. Label this point A.

1 mark

(ii) The Sun seemed to move from point B to point C. How many hours did this take? Tick the correct box.

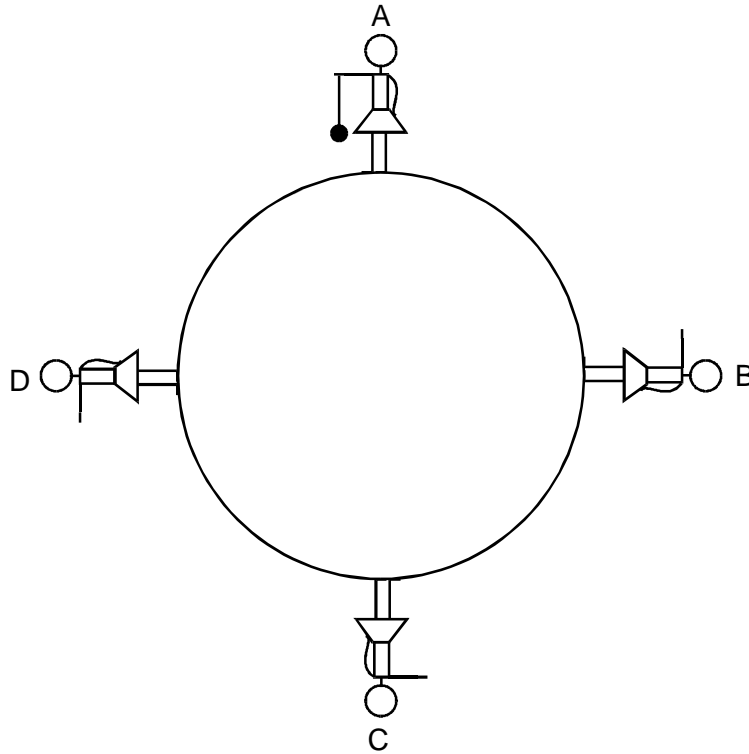
2 hours	<input type="checkbox"/>	6 hours	<input type="checkbox"/>
4 hours	<input type="checkbox"/>	8 hours	<input type="checkbox"/>

1 mark

(e) **On the diagram above**, draw the path of the Sun from sunrise to sunset on a day in **winter**.

1 mark
maximum 8 marks

2. Lisa drew a picture of herself standing at four different positions on the Earth,



not to scale

- (a) (i) Draw an arrow at **each** of the four positions to show the direction of the force of gravity on Lisa.

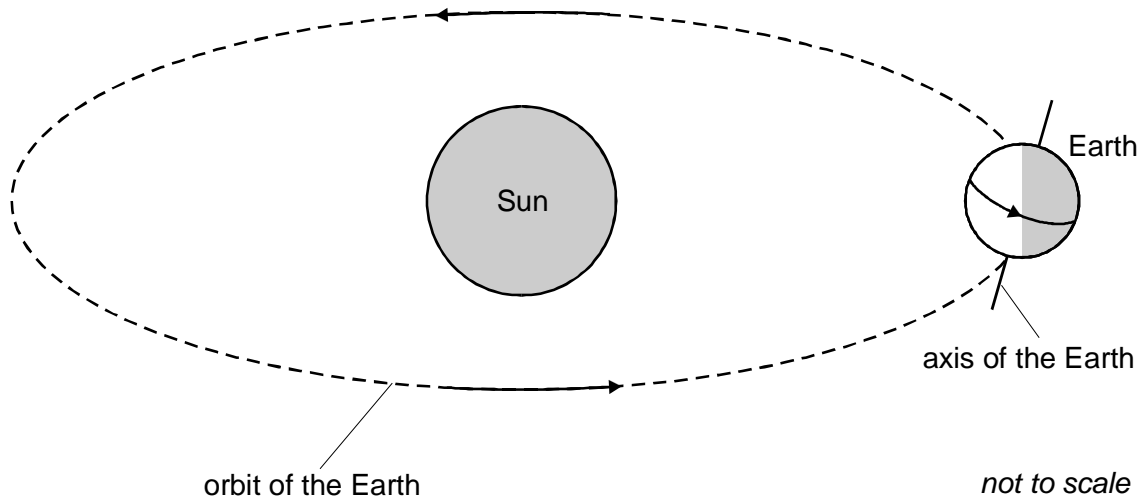
1 mark

- (ii) The drawing at position A shows Lisa holding a ball on a string. Draw the ball and string in positions B, C and D.

1 mark

(b) The drawing below shows:

- that the Earth goes round the Sun;
- that the Earth rotates on its axis.



Choose from the list below to answer parts (i) and (ii).

60 seconds 60 minutes 24 hours 7 days 28 days 365 days

(i) How long does it take for the Earth to go round the Sun once?

.....

1 mark

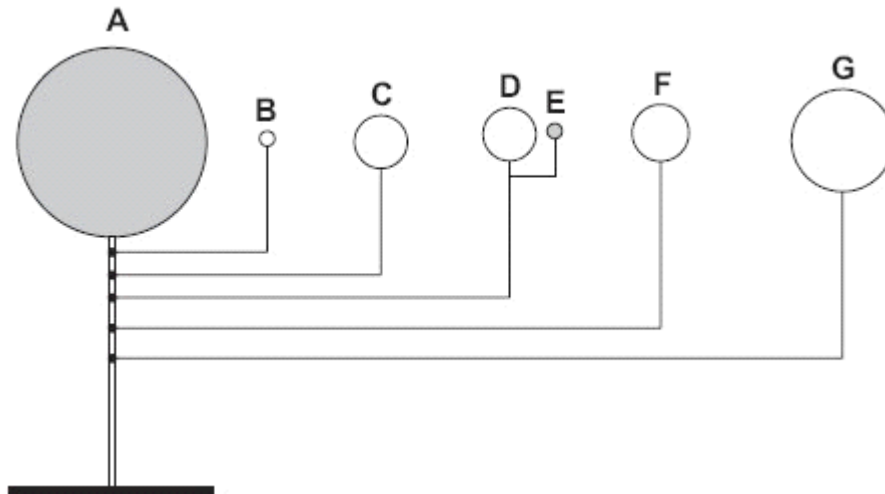
(ii) How long does it take for the Earth to rotate on its axis once?

.....

1 mark

Maximum 4 marks

3. (a) Alfie made a model of part of the solar system.
He used metal balls for the Sun, the Moon and the planets.



- E goes around D.
- B, C, D, F and G go around A.

Give the letter that is used to label:

- (i) the model Sun;

.....

1 mark

- (ii) the model Earth;

.....

1 mark

- (iii) the model Moon;

.....

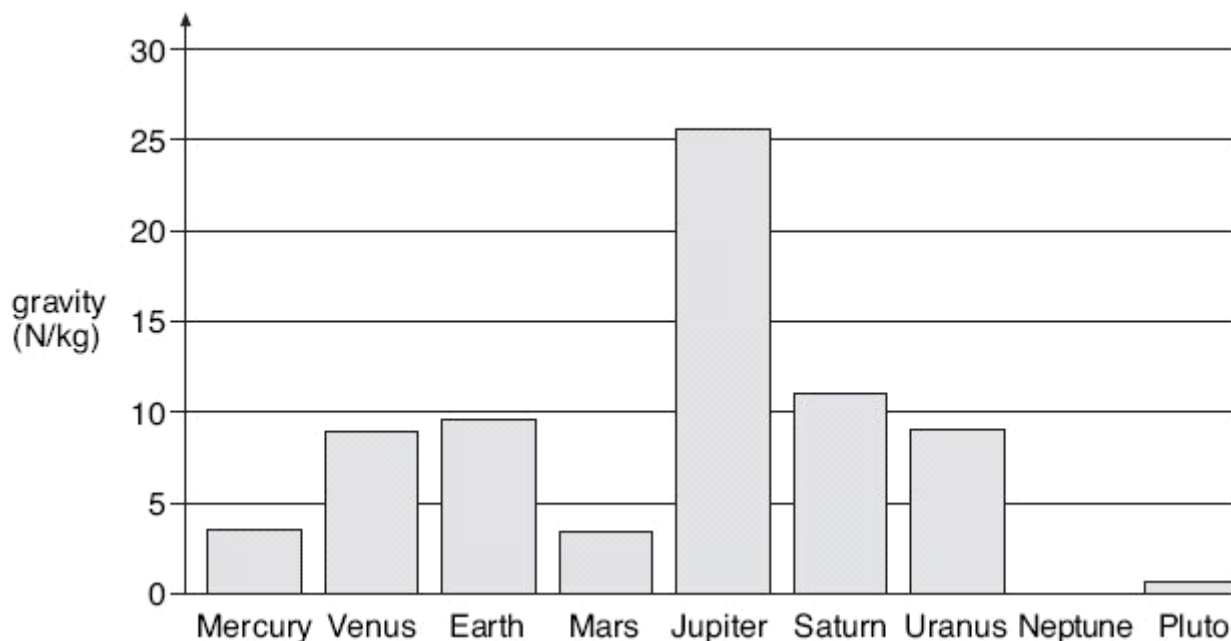
1 mark

- (iv) the model planet with the largest orbit.

.....

1 mark

(b) The bar chart shows the force of gravity on eight of the planets.



(i) The gravity on Neptune is 12 N/kg.

On the chart above, draw a bar for the planet Neptune.
Use a ruler.

2 mark

(ii) Give the name of a planet where you would weigh more than you weigh on Earth.

.....

1 mark

(iii) On which planet would a spaceship need the largest force to take off?

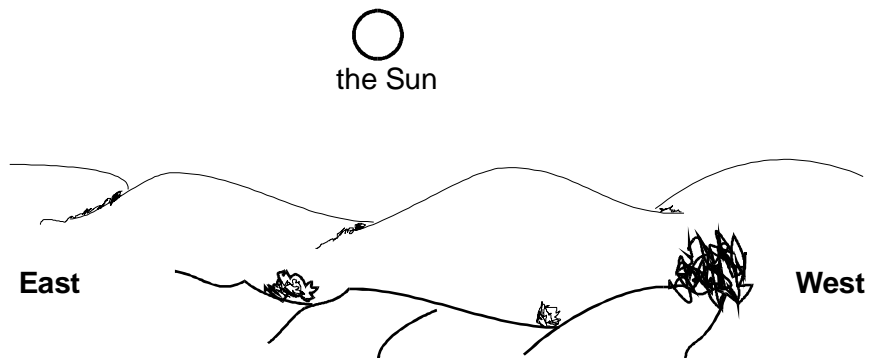
.....

1 mark

maximum 7 marks

4. The Sun appears to move across the sky each day.

The drawing shows the position of the Sun at mid-day on the 21st March.



- (a) (i) Draw the path which the Sun appears to take **from sunrise to sunset** on the 21st March. Label the path 'March'.

1 mark

- (ii) Put an arrow on the line you have drawn to show the direction in which the Sun appears to move across the sky.

2 mark

- (b) Draw another line to show the path which the Sun appears to take **from sunrise to sunset** in December. Label the path 'December'.

2 marks

Maximum 4 marks

5. David lives in Britain. He sees that the Sun seems to move across the sky.

(a) Where does the Sun rise in the morning? Tick the correct box.

in the north	<input type="checkbox"/>	in the south	<input type="checkbox"/>
in the west	<input type="checkbox"/>	in the east	<input type="checkbox"/>

1 mark

(b) (i) At what time of day is the Sun highest in the sky?

.....

1 mark

(ii) In which direction will David see the Sun when it is highest in the sky? Tick the correct box.

towards the north	<input type="checkbox"/>	towards the south	<input type="checkbox"/>
towards the west	<input type="checkbox"/>	towards the east	<input type="checkbox"/>

1 mark

(c) Where does the Sun set in the evening? Tick the correct box.

in the north	<input type="checkbox"/>	in the south	<input type="checkbox"/>
in the west	<input type="checkbox"/>	in the east	<input type="checkbox"/>

1 mark

(d) Explain why the Sun seems to move across the sky.

.....

1 mark

(e) Light from the Sun takes about 8 minutes to get to the Earth. How long does light from other stars take to get to the Earth? Tick the correct box.

more than 8 minutes	<input type="checkbox"/>
8 minutes	<input type="checkbox"/>
less than 8 minutes	<input type="checkbox"/>
zero minutes	<input type="checkbox"/>

1 mark

Maximum 6 marks