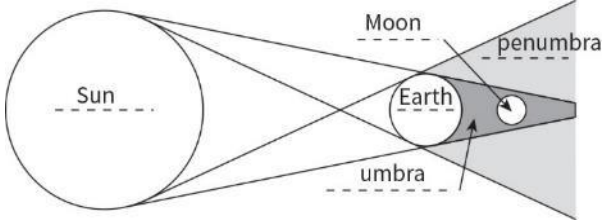


Question	Answers	Extra information	Mark
1(a)	the Moon, Venus, Jupiter	All three needed for the mark	1
(b)	moon – natural object in orbit around a planet solar system – collection of planets and moons in orbit around a star galaxy – collection of stars and solar systems Universe – all the galaxies, stars, moons, and other celestial objects	2 marks for two correctly matched 1 mark for one correctly matched	3
2(a)	B		1
(b)	the axis of Earth is tilted towards the Sun the Sun is in the sky for longer during the day		1 1
3(a)		1 mark for each correct label	5
(b)	lunar		1
4	Mercury Mars Jupiter Mars Sun		1 1 1 1 1
5	orbits Earth – no letters intersection between orbits Earth and does not give out light – B, E does not give out light – A, C, D		1 1 1
6(a)	inner planets are rocky outer planets are gaseous/icy		1 1

Question	Answers	Extra information	Mark
(b)	the force of gravity		1
7(a)	Any <b>two</b> from: <ul style="list-style-type: none"> <li>• type of lamp</li> <li>• depth of sand</li> <li>• distance of lamp from sand</li> </ul>		2
(b)	it will be higher the rays are concentrated over a smaller area/energy is transferred to less sand (than tray B)		1 1
(c)	Earth's axis is tilted so the surface tilts towards then away from the Sun		1 1
8(a)	it is the distance that light travels in a particular time/equal to time x speed		1
(b)	ratio of the light-time to the Sun and the Moon = $(8 \times 60 \text{ s}) : 1.4 \text{ s}$ = 343 : 1 time it would take = 3 days x 343 = 1029 days = $\frac{1029}{365} = \frac{2.8 \text{ (years)}}{3 \text{ (years)}}$		1 1 1 1 1
9	yes phases of the Moon seen when the Moon orbits Earth one half of the Moon is lit at all times one half of Earth is lit at all times Earth moves around the Sun so its appearance changes	No mark for yes/no with no reasoning	1 1 1 1
<b>SPACED LEARNING QUESTIONS</b>			
10(a)	rays traced back to cross at a point		1 1
(b)	you have to look in the glass to see it		1

# KS3 Physics

## Answers

Question	Answers	Extra information	Mark
(c)	glass reflects light to form an image glass transmits light to enable you to see what is behind it		1 1