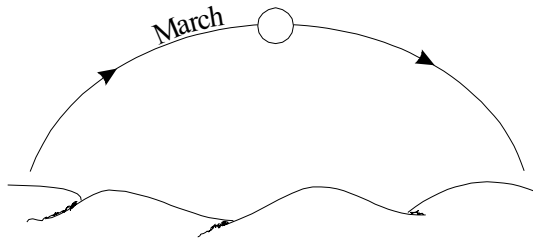
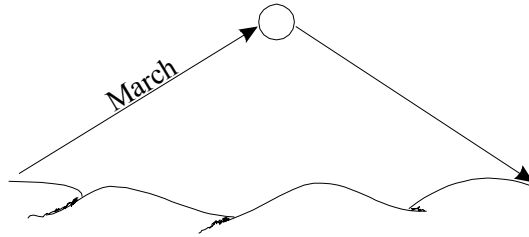


Level 4 answers

1. (a) (i) path is drawn through the Sun, curving downwards at the East and West 1



*the line need **not** touch the horizon at each side
do **not** accept a horizontal straight line
do **not** accept a curve which ends on the Sun
do **not** accept two straight lines as shown below*



- (ii) arrow pointing from East to West 1

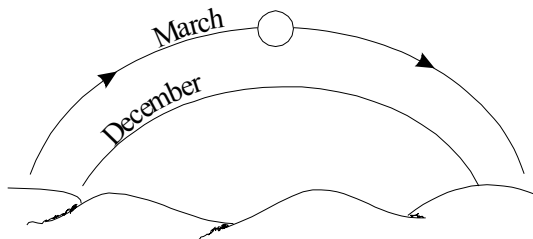
*this mark may be awarded even if no
mark is awarded for part (i)*

- (b) **one mark is for the Sun's path shown lower in the sky and one mark is for the shape of the path**

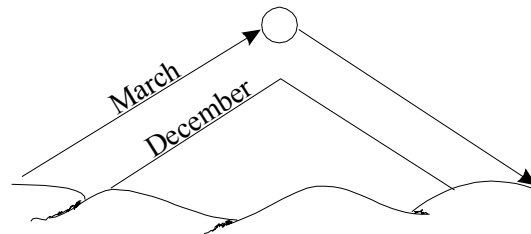
a path drawn below the pupil's answer to part (a)(i) as shown below 1

*this mark may be awarded even if no
mark is awarded for part (a)(i)*

the curve is reasonably parallel to the pupil's answer to part (a)(i) as shown below 1



*do **not** accept straight lines **or** U shapes **or**
the December curve touching the Sun
accept the following for the first mark only*



2. (a) in the east ✓ *if more than one box is ticked,* 1
award no mark
- (b) (i) any **one** from 1
 - 12.00 **or** twelve o'clock
 - 1.00 **or** one o'clock **or** 13.00*accept answers between 11.50 and 13.30 to allow for variations between local time and GMT or BST*
 - midday **or** noon *do not accept 'lunch time'*
- (ii) towards the south ✓ *if more than one box is ticked,* 1
award no mark
- (c) in the west ✓ *if more than one box is ticked,* 1
award no mark
- (d) any **one** from 1
 - because the Earth rotates **or** spins *accept 'because the Earth moves round or goes round or spins and moves'*
 - because the Earth turns around its axis *do not accept 'because the Earth moves' or 'because the Earth goes round the Sun'*
- (e) more than 8 minutes ✓ *if more than one box is ticked,* 1
award no mark