

Answer ALL questions.

1 (a) (i) Which of these coloured stars has the highest surface temperature? (1)

- ☐ **A** orange
- ☐ **B** red
- ☐ **C** white
- ☐ **D** yellow

(ii) Which of these is a stage in the life cycle of the Sun? (1)

- ☐ **A** black hole
- ☐ **B** neutron star
- ☐ **C** supernova
- ☐ **D** white dwarf

(iii) Which of these is the stage nearest the end of the life cycle of a star with a mass much greater than the Sun? (1)

- ☐ **A** main sequence
- ☐ **B** protostar
- ☐ **C** supernova
- ☐ **D** white dwarf

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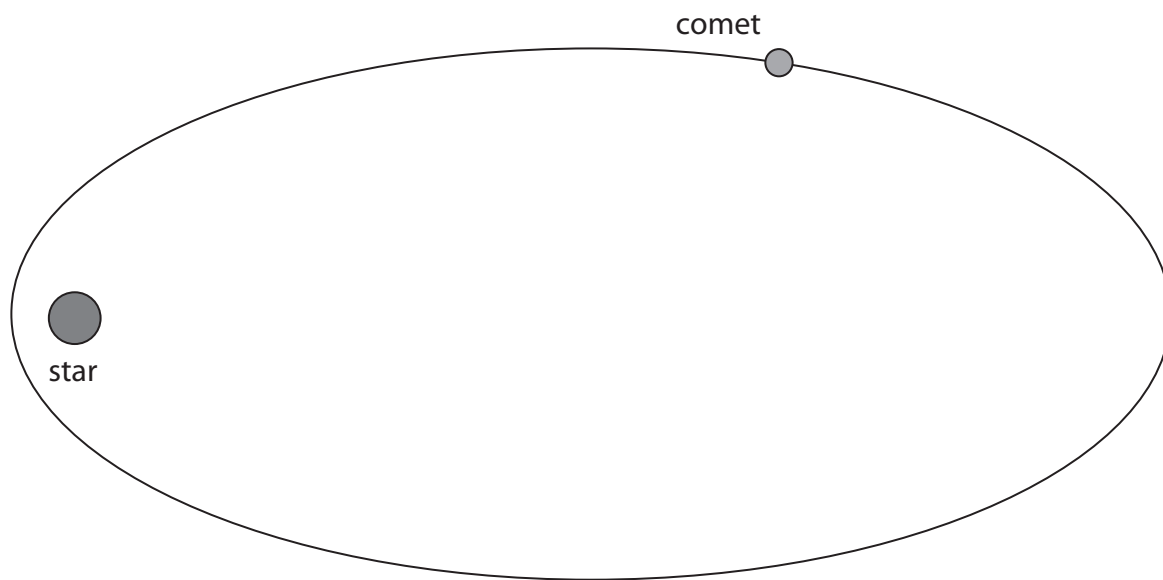


(b) The diagram shows the orbit of a comet around a star.

Draw a labelled arrow to show the force acting on the comet due to the star.

(2)

not to scale



(Total for Question 1 = 5 marks)

