0 1	The life cycle of a star depends on its mass. The life cycle of a star which is around the same mass as our Sun is as shown in the below diagram.
	Nebula $\longrightarrow X \longrightarrow Y \longrightarrow$ Red $\longrightarrow Z \longrightarrow$ Black giant dwarf
	• • •
0 1 . 1	Write down the names of the parts of the life cycle of a star which are labelled X, Y and Z in the above diagram.
	X Y
	Ζ
	[3 marks]
0 1 . 2	
	[1 mark]
0 1 . 3	Explain how a star is formed from a nebula.
	[3 marks]
0 1 . 4	The majority of stars spend most of their lives at stage Y. The Sun is currently at this stage in its life cycle. We say therefore that stars such are our Sun are stable . Explain the cause of the stability of such stars.

[2 marks]

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[2 marks]