

# REVIEW IT!

## Space physics

1 Complete the list of planets in order of distance from the Sun.

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Earth

Mars

\_\_\_\_\_

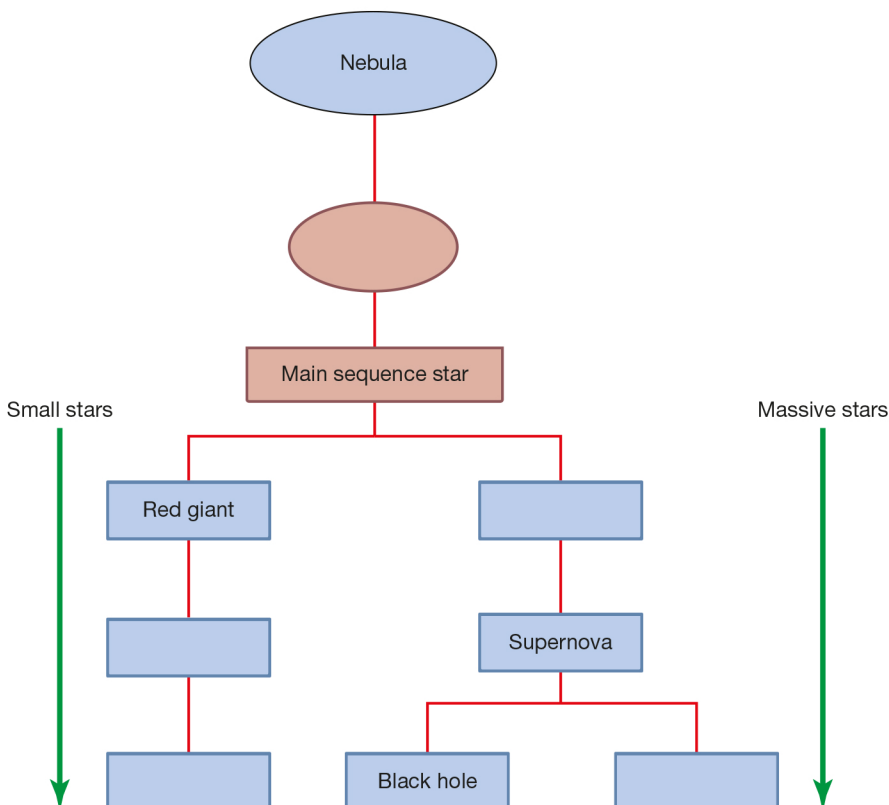
Saturn

\_\_\_\_\_

\_\_\_\_\_

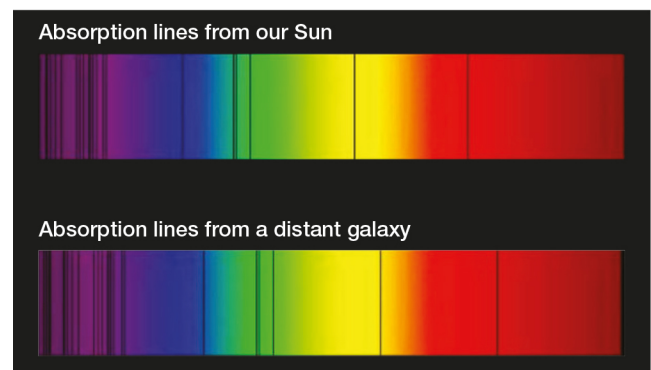
2 Explain what prevents the gravitational collapse of a main-sequence star and why the star does not expand uncontrollably.

3 Copy and complete the gaps in the diagram below.



H 4 A satellite is in a circular orbit around the Earth. Explain how the velocity of the satellite changes.

5 Light from our Sun and from a distant galaxy are analysed with a spectrometer. The two spectra of light are shown in the image below.



Explain why the absorption lines appear at different wavelengths for the two samples.

6 What does the theory of the Big Bang claim about the origins of the universe?