A Physics Unit 4.8-Space- Higher

What does our solar system contain? Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a star. Fill in the blanks for the life cycle of a s	n
Describe the following: nebula -	
What is the name of the galaxy that our solar system is part of? Describe the following: b b b c	om us
Describe the following: nebula -	
	0
protostar – In a stable orbit, what would happen if the speed changed?	
main sequence star –	
Describe and explain the initial formation of all stars. A) up to and including iron? How are elements formed in stars? B) up to and including iron? How is a theory developed?	
b) heavier than iron?	
Explain why heavier elements are formed and how they h are dispersed.	not P
Fill in the blanks. d Define centripetal force. My main areas for improvement are:	q
the gravitational collapse of a and the a) planets?	
of a star due to energy. b) satellites? How are radius and speed related in an orbit?	
There are two different life cycles of stars. What determines which life cycle they follow? How do satellites and planets maintain their orbit? How can you keep an orbit stable when you change the radius?	





AQA Physics Unit 4.8-Space- Higher Answers





Describe and explain red-shift.

Red-shift is the observed increase in wavelength of light towards the red end of the spectrum. This is because an object is moving away so the light's wavelength increases.

Explain the link between the distance of galaxies from us and red-shift.

The further away they are, the bigger the red-shift.

Describe the big bang theory.

The universe started from a very small region that was hot and dense; all the matter was packed together. Something caused the expansion of the universe and it has been expanding ever since.

Explain the evidence for The big bang?

Red-shift: Provides evidence that the universe is expanding. If something is moving away then the wavelength seems larger. Change of galaxies' speed: Provides evidence of an expanding universe as the further away, the faster their speed of recession.

How is a theory developed? Scientists use observations, look for patterns in data and form predictions.

There is still a lot about the universe that we do not understand. Give some examples.

How the increase in expansion of the universe is occurring. Dark mass.

Dark energy.

My main areas for improvement are:

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