Edexcel International GCSE Physics 4PH1 Learning Plan

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| **Unit: 8 Astrophysics** | **Chapter: 27. Stellar Evolution** | **Hours: 3** |
| Content coverage | Learning outcomes | Resources | Assessment |
| Section 8; Astrophysicsa) Unitsb) Motion in the Universec) Stellar evolution | 8.2 know that: * the universe is a large collection of billions of galaxies
* a galaxy is a large collection of billions of stars
* our solar system is in the Milky Way galaxy.

8.7 understand how stars can be classified according to their colour 8.8 know that a star’s colour is related to its surface temperature 8.9 describe the evolution of stars of similar mass to the Sun through the following stages: • nebula * star (main sequence)
* red giant
* white dwarf.

8.10 describe the evolution of stars with a mass larger than the Sun **8.11P understand how the brightness of a star at a standard distance can be represented using absolute magnitude** **8.12P draw the main components of the Hertzsprung–Russell diagram (HR diagram)**  | Video and Powerpoint:Section 6 Lesson 2 – Stellar evolutionTextbook pages:Page 266 – The Milky WayPage 266 – Classifying starsPage 268 – The birth of a starPage 268 – The life of a star | Page 270Questions (1) to (6)Chapter 27 Textbook Answers (PDF)Chapter 27 - exam question - pdfChapter 27 - exam question mark scheme – pdfChapter 27 - Talking paper video  |

Videos – [www.igcsesciencecourses.com](http://www.igcsesciencecourses.com)

Textbook Ref: Edexcel International GCSE (9-1) Physics Student Book - Pearson (Arnold, Johnson, Woolley))