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; Astrophysics  a) Units  b) Motion in the Universe  c) 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 evolution  Textbook pages:  Page 266 – The Milky Way  Page 266 – Classifying stars  Page 268 – The birth of a star  Page 268 – The life of a star | Page 270  Questions (1) to (6)  Chapter 27 Textbook Answers (PDF)  Chapter 27 - exam question - pdf  Chapter 27 - exam question mark scheme – pdf  Chapter 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))