Star in a Box

GCSE Worksheet: The Lifecycle of Stars

**Objectives**

Describe the relationship between a star's mass and its life span

State that stars above a certain mass end their lives in a supernova

Name the stages of a star's life-cycle, in order, for several masses of star.

Describe the relationship between a star's mass, its age, and its position on the [Hertzsprung-Russell](http://lcogt.net/book/h-r-diagram) diagram

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| Appropriate Sections of Specification | |
| AQA GCSE Physics | P2.6.2 Nuclear Fusion |
| Edexcel GCSE Physics | P7.4 The Sun, the stars and their surroundings |
| OCR GCSE Physics A | P1 Topic 3 Waves and the Universe |
| OCR GCSE Physics B | P2h The Big Bang |
| WJEC GCSE Physics | Physics 3.5 Origin of the Chemical Elements |

**Resources Required**

Computers with internet access- search for <http://lcogt.net/siab/> website

**Approximate Timings**

Section A:

Section B:

Section C:

Section D:

Section E:

Section F: