

Achievement Standard

Subject Reference Science 2.7

Title Describe the nature and life cycle of stars

Level 2 **Credits** 2 **Assessment** External

Subfield Science

Domain Science – Core

Registration date 20 October 2004

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This achievement standard involves describing the nature and life cycle of stars.

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> Describe the nature and life cycle of stars. 	<ul style="list-style-type: none"> Explain the nature of stars and their life cycle. 	<ul style="list-style-type: none"> Discuss the nature of stars and their life cycle.

Explanatory Notes

- This achievement standard is derived from *Science in the New Zealand Curriculum*, Learning Media, Ministry of Education, 1993, Making Sense of Planet Earth and Beyond, pp. 120-121.
This achievement standard is also related to *Pūtaiao i roto i te Marautanga o Aotearoa*, Learning Media, Ministry of Education, 1996, Ō Ahupūngao: Te Kune, pp. 48-49.
- The *nature* of stars includes types of stars and their characteristics.
- Characteristics of star types refers to colour, temperature, size, mass, luminosity, spectral type and the relationships between the characteristics as shown by the Hertzsprung Russel (HR) diagram.
- Life cycle* of stars will be based on the currently accepted scientific theories on life cycles and formation of stars.

5 Terms:

- *Describe* requires the student to give characteristics of, or an account of.
- *Explain* requires the student to make connections between the nature of the stars and their life cycle.
- *Discuss* requires the student to use scientific ideas to justify, relate, evaluate, compare and contrast, or analyse.

Replacement Information

This achievement standard and AS90767 replaced AS90316.

Quality Assurance

- 1 Providers and Industry Training Organisations must be accredited by the Qualifications Authority before they can register credits from assessment against achievement standards.
- 2 Accredited providers and Industry Training Organisations assessing against achievement standards must engage with the moderation system that applies to those achievement standards.

Accreditation and Moderation Action Plan (AMAP) reference

0226