

Assessment Specifications

Level 2 Earth and Space Science 2025

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General information

Domain: Earth and Space Science

Standards: 91191, 91192, 91193

Assessment method: Examination, end of year

Assessment medium: Printed paper

Link to the Subject page

National secondary examinations timetable

Information relating to all achievement standards

Each examination will contain resource-based and knowledge-based questions.

Special assessment conditions

Refer to the NZQA website for further information:

Aromatawai special assessment conditions

Specific information for individual achievement standards

Standard: 91191

Title: Demonstrate understanding of the causes of extreme

Earth events in New Zealand

Version: 2

Number of credits: 4

Assessment medium: Printed paper

In-depth and comprehensive understanding of the causes of extreme Earth events in New Zealand is shown when causes are explained in terms of processes and effects that occur in one or more of the geosphere, hydrosphere, biosphere, or atmosphere.

Application of understanding will also include predictions of future events, and likely impacts on land and population.

Extreme Earth events are those events that are extraordinary or remarkable on planet Earth, but which may occur commonly in parts of New Zealand (and its continental shelf) due to its position on plate boundaries.

Standard: 91192

Title: Demonstrate understanding of stars and planetary

systems

Version: 2

Number of credits: 4

Assessment medium: Printed paper

A Hertzsprung-Russell diagram will be provided. The *x*-axis will show temperature; the *y*-axis will show both luminosity and absolute magnitude.

An understanding of absolute and apparent magnitude of stars is required.

Characteristics of planetary systems could include prograde and retrograde motion, spherical or irregular shape, and ring systems.

An understanding of the role of gravity in the life cycle of stars and planet formation is required.

Planetary systems will include both planets and dwarf planets.

Formation of moons includes capture, accretion, and collision theories.

Standard: 91193

Title: Demonstrate understanding of physical principles

related to the Earth System

Version: 2

Number of credits: 4

Assessment medium: Printed paper

The sources of both terrestrial and solar heat energy include fission and fusion reactions. Equations are not required.

Physical properties related to wave properties includes frequency and wavelength. Equations / calculations are not required.

Physical principles related to the transport of heat includes heat capacity and latent heat.

Physical principles may be investigated in relation to climate change, local climate, and physical features.