

Assessment Specifications

Level 3 Earth and Space Science 2024

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General information

Domain: Earth and Space Science

Assessment method: Examination

Assessment medium: Printed paper

Standards: 91413, 91414

[Science subject page](#)

[National secondary examinations timetable](#)

Information relating to all achievement standards

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

Candidates should be encouraged to develop their own labelled diagrams/sketches as part of their learning and assessment

Specific information for individual achievement standards

Standard: 91413

Domain: Earth and Space Science

Title: Demonstrate understanding of processes in the ocean system

Version: 2

Number of credits: 4

The effects of climate change on ocean processes may be examined.

The ocean composition includes mixed layer, deep layer, pycnocline, thermocline, and halocline.

Transport of matter and energy in the ocean could include surface and deep currents, and the links between them. It may also include nutrient cycling, energy flows, and the formation and effects of tides and waves.

Standard:	91414
Domain:	Earth and Space Science
Title:	Demonstrate understanding of processes in the atmosphere system
Version:	2
Number of credits:	4

The effects of climate change on atmospheric processes may be examined.

Aerosols can include pollutants, particulates, and water. Jet streams are a part of troposphere circulation.

When considering transport of energy, candidates should consider conduction, convection, radiation, latent heat, sensible heat, and albedo.

When considering atmospheric composition, candidates should consider layers: troposphere, stratosphere, mesosphere, ionosphere, and thermosphere.