

# Assessment Specifications

## Level 1 Physics, Earth and Space Science 2024

Published in March 2024

### General information

**Domain:** Science  
**Standards:** 92046, 92047

[Science subject page](#)

[National secondary examinations timetable](#)

### Information relating to all achievement standards

#### Equipment required

A ruler and an [approved calculator](#) are required.

#### Resources or information supplied

The assessment task and resource materials will be made available during Term 3, Week 1.

### Specific information for individual achievement standards

<b>Standard:</b>	92046
<b>Domain:</b>	Science
<b>Title:</b>	Demonstrate understanding of the effect on the Earth of interactions between the Sun and the Earth-Moon system
<b>Version:</b>	3
<b>Number of credits:</b>	5
<b>Assessment event scheduling:</b>	School managed assessment
<b>Assessment medium:</b>	Digital submission
<b>Permitted file types:</b>	Document file (PDF, DOC, DOCX) or slideshow (PPT, PPTX) or audio file (MP3) or video file (MP4)
<b>Final date of submission:</b>	30 October 2024
<b>Date for pre-release of material:</b>	Term 3, Week 1

The assessment task and resource materials will be made available during Term 3, Week 1; however, these must not be given to candidates until the assessment begins. Candidates will be required to answer three questions that demonstrate their understanding of the effect on the Earth of interactions between the Sun and the Earth-Moon system. It is recommended that candidates are given two hours to complete their assessment during a school-scheduled period.

Candidates are required to provide evidence for each question using the information provided in the resources, along with their own knowledge. Annotated diagrams may be used, but candidates are expected to explain their answers. If annotated diagrams are hand drawn, these must be scanned and uploaded with the candidate's digital submission.

Candidates may choose to respond in writing or orally. An oral submission must also include a written transcript.

### Conditions of assessment

Candidates may not access the internet or bring any other evidence into the assessment. The resource booklet and task will only be given once the assessment begins, and these must not be taken out of the classroom.

The use of chatbots, generative AI, paraphrasing tools, or other tools that can automatically generate content is not permitted and material generated by these tools should not be submitted as part of the candidate's work.

### Authenticity

Teachers must closely supervise the process of evidence collection to ensure that candidates:

- do not copy from another person or source
- do not receive guidance, scaffolding, instruction, assistance, or assessment conditions beyond what is specified as permissible in these Assessment Specifications.

Where a teacher cannot verify that the assessment submitted is the authentic work of the candidate, they must notify NZQA of a possible Candidate Breach of External Assessment.

### Special Assessment Conditions

Refer to the NZQA website for further information.

[Aromatawai Special Assessment Conditions](#)

### Submission requirements

Written evidence may be submitted as either a document file (PDF) or a slideshow (PPT, PPTX).

Oral evidence may be submitted as either an audio file (MP3) or video file (MP4), of no more than 8 minutes in duration. Oral evidence must be accompanied by a written transcript as a document file (PDF).

*Note that only these file types may be submitted, and that other file types may not be able to be marked.*

Candidates should refer to [Further Guidance for Submission Responses](#) for further information.

Refer also to other resources on the subject page of NZQA website.

Further submission instructions and authenticity requirements will be provided for schools in Term 3, Week 1.

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<b>Standard:</b>	92047
<b>Domain:</b>	Science
<b>Title:</b>	Demonstrate understanding of a physical system using energy concepts
<b>Version:</b>	3
<b>Number of credits:</b>	5
<b>Assessment timing:</b>	Point-in-time end of year
<b>Assessment method:</b>	Examination
<b>Assessment medium:</b>	Printed paper

Candidates will be required to demonstrate their understanding of energy in a physical system linked to energy concepts involved, and the implications for energy concepts.

There will be three questions with a focus on mechanical energy, thermal energy, and electrical energy. Responses will need to be descriptive and be supported by representation, annotated diagram, graph, and calculation.

The examination paper will contain all necessary mathematical formulae (see Explanatory Note 3 of AS92047).