

# NCEA Physics, Earth and Space Science Remote Learning and Assessment

Subject matrices are a guide to assessment where remote teaching, learning and assessment have to take place due to a significant event leading to closure of schools over an extended period of time. For example, lockdown, natural disaster, etc.

## General Guidance

Where teaching, learning and assessment is done via distance learning, students may need access to digital devices and the internet. These requirements may pose access and equity issues for some students, which you will need to consider in your programme planning.

Students may need access to specific equipment to collect primary data for the practical investigation standards. This may require considering issues of availability and health and safety.

# Physics, Earth and Space Science Matrix

**COLOUR KEY:** A colour-coding system to categorise standards according to the advice in this document.

**Green:** These standards are suitable for remote teaching, learning and assessment.

**Blue:** Teachers can facilitate assessment against these standards by remote learning with guidance (refer to General Guidance above).

**Orange:** These standards are suitable for remote teaching and learning provided the candidate has access to appropriate equipment and/or technology. They are not suitable for remote assessment in their current delivery method and/or requirements. Guidance will be provided at the time as required.

**Red:** These standards require a collaborative process or interaction with others, and are not suitable for remote teaching, learning and assessment.

## Level 1

**AS 92044**

**1.1**

Internal (5 credits)

### **Demonstrate understanding of human-induced change within the Earth system**

This standard is suitable for distance learning and assessment using digital platforms for video conferencing, word processing or file sharing. The evidence can be presented using a variety of modes to clearly demonstrate the student's understanding.

For authenticity purposes, each student could be required to use different human-induced changes for their assessment. Where students are using the same human-induced changes, teachers could also have regular check points, or conduct verbal conferencing with students during the assessment period. For specific advice on how to manage authenticity when assessing during uncertain times, please see the Pūtake module: Tāku Reo, Tāku Mahi - My Voice, My Work.

Guidance and support are also provided on the NZQA Physics, Earth and Space Science page. This includes the exemplars and Alternative Evidence Gathering Templates.

## Level 1

### AS 92045

1.2

Internal (5 credits)

#### **Demonstrate understanding of a physical phenomenon through investigation**

This standard is suitable for distance learning and assessment using digital platforms for video conferencing, word processing or file sharing. The standard can require the use of some equipment and/or technology. The availability of required equipment and/or technology needs to be taken into account when completing this standard remotely. The evidence can be presented using a variety of modes to clearly demonstrate the student's understanding.

For authenticity purposes, where students are using the same physical phenomenon, teachers could also have regular check points, or conduct verbal conferencing with students during the assessment period. For specific advice on how to manage authenticity when assessing during uncertain times, please see the Pūtake module: Tāku Reo, Tāku Mahi - My Voice, My Work.

Guidance and support are also provided on the NZQA Physics, Earth and Space Science page. This includes the exemplars and Alternative Evidence Gathering Templates.

### AS 92046

1.3

External (5 credits)

#### **Demonstrate understanding of the effect on the Earth of interactions between the Sun and the Earth-Moon system**

Teaching and learning towards assessment of this standard is suitable remotely. Assessment is not suitable remotely. The current Assessment Specifications will continue to apply.

## Level 1

### AS 92047

1.4

External (5 credits)

#### **Demonstrate understanding of a physical system using energy concepts**

Teaching and learning towards assessment of this standard is suitable remotely.  
Assessment is not suitable remotely. The current Assessment Specifications will continue to apply.