

NCEA Science Remote Learning and Assessment

NZQA has considered the impacts of the Covid-19 virus on teaching, learning and assessment programmes for NCEA Science. This document includes guidance for both internal and external Science Achievement Standards.

General Guidance:

All internally assessed Science standards, **except for 90947 research**, are suitable for remote teaching, learning and assessment.

Teachers need to be aware that this depends, as for all remote teaching, learning and assessment, on the access of students to the necessary digital means to undertake activities independently. Programmes may need to be modified accordingly.

Supporting Evidence:

Teachers need to ensure that student evidence has been produced authentically under any conditions by which it was produced for final assessment.

Science Matrix

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).
Red	These standards require specific chemicals and equipment, the need to collect primary data and there are health and safety issues, therefore they are not suitable for remote teaching, learning and assessment.

Domain	Level 1			
	Physical World	Material World	Living World	Planet Earth and Beyond
Science	<p>AS90940 1.1 Demonstrate understanding of aspects of mechanics</p> <p>Teaching and learning towards assessment of this standard is suitable remotely. The current Assessment Specifications will continue to apply.</p> <p style="text-align: right;">4 credits External</p>	<p>AS90944 1.4 Demonstrate understanding of aspects of acids and bases</p> <p>Teaching and learning towards assessment of this standard is suitable remotely. The current Assessment Specifications will continue to apply.</p> <p style="text-align: right;">4 credits External</p>	<p>AS90948 1.9 Demonstrate understanding of biological ideas relating to genetic variation</p> <p>Teaching and learning towards assessment of this standard is suitable remotely. The current Assessment Specifications will continue to apply.</p> <p style="text-align: right;">4 credits External</p>	<p>AS90955 1.16 Demonstrate understanding of the formation of surface features in New Zealand</p> <p>Teaching, learning and assessment both formative and summative, could take place digitally.</p> <p style="text-align: right;">4 credits Internal</p>

Domain	Level 1			
	Physical World	Material World	Living World	Planet Earth and Beyond
Science	AS90941 1.2 Investigate implications of electricity and magnetism for everyday life Teaching, learning and assessment both formative and summative, could take place digitally. 4 credits Internal	AS90945 1.6 Investigate implications of the use of carbon compounds as fuels Teaching, learning and assessment both formative and summative, could take place digitally. 4 credits Internal	AS90949 1.10 Investigate life processes and environmental factors that affect them Teaching, learning and assessment both formative and summative, could take place digitally. 4 credits Internal	AS90953 1.14 Demonstrate understanding of carbon cycling Teaching, learning and assessment both formative and summative, could take place digitally. 4 credits Internal
Science	AS90942 1.3 Investigate implications of wave behaviour for everyday life Teaching, learning and assessment both formative and summative, could take place digitally. 4 credits Internal	AS90946 1.7 Investigate the implications of the properties of metals for their use in society Teaching, learning and assessment both formative and summative, could take place digitally. 4 credits Internal	AS90950 1.11 Investigate biological ideas relating to interactions between humans and micro-organisms Teaching, learning and assessment both formative and summative, could take place digitally. 4 credits Internal	AS90954 1.15 Demonstrate understanding of the effects of astronomical cycles on planet Earth Teaching, learning and assessment both formative and summative, could take place digitally. 4 credits Internal

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	Physical World	Material World	Living World	Planet Earth and Beyond
Science	AS90943 1.4 Investigate implications of heat for everyday life Teaching, learning and assessment both formative and summative, could take place digitally. 4 credits Internal	AS90947 1.8 Investigate selected chemical reactions The standard requires the collection of data from chemical reactions, which is not possible under current conditions. 4 credits Internal	AS90951 1.12 Investigate the biological impact of an event on a New Zealand ecosystem Teaching, learning and assessment both formative and summative, could take place digitally. 4 credits Internal	AS90955 1.16 Investigate an astronomical or Earth science event Teaching, learning and assessment both formative and summative, could take place digitally. 4 credits Internal