

# NCEA Earth and Space Science Remote Learning and Assessment

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

## General Guidance

Where teaching, learning and assessment is done via remote means students will need access to digital devices and the internet.

Students may need access to specific chemicals and equipment to collect primary data for some standards. This may pose issues around health and safety.

The requirements above may well pose access and equity issues for some students which you will need to consider in your programme planning.

## Earth and Space Science Matrix

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

<b>Green</b>	These standards are suitable for remote teaching, learning and assessment.
<b>Blue</b>	Teachers can facilitate assessment against these standards by remote learning with guidance (refer to General Guidance above).
<b>Red</b>	These standards require specific chemicals and equipment, and the collection of primary data, and there are health and safety issues, meaning they are not suitable for remote teaching, learning and assessment.

Domain	Level 2	Level 3
Earth and Space Science	<p><b>AS91187</b> <span style="float: right;"><b>2.1</b></span>  <b>Carry out a practical Earth and Space Science investigation</b></p> <p>As this standard requires the collection of primary data it is suggested assessment against this standard should be delayed until students have access to the resources.</p> <p style="text-align: center;">4 credits <span style="float: right;">Internal</span></p>	<p><b>AS91410</b> <span style="float: right;"><b>3.1</b></span>  <b>Carry out an independent practical Earth and Space Science investigation</b></p> <p>As this standard requires the collection of primary data it is suggested assessment against this standard should be delayed until students have access to the material.</p> <p style="text-align: center;">4 credits <span style="float: right;">Internal</span></p>

Domain	Level 2	Level 3
Earth and Space Science	<p data-bbox="282 233 880 384"><b>AS91188</b> <span style="float: right;"><b>2.2</b></span>  <b>Examine an Earth and Space Science issue and the validity of the information communicated to the public</b></p> <p data-bbox="282 443 846 547">Teaching, learning and assessment both formative and summative, could take place digitally.</p> <p data-bbox="282 683 880 715">4 credits <span style="float: right;">Internal</span></p>	<p data-bbox="902 233 1496 344"><b>AS91411</b> <span style="float: right;"><b>3.2</b></span>  <b>Investigate a socio-scientific issue in an Earth and Space Science context</b></p> <p data-bbox="902 411 1462 515">Teaching, learning and assessment both formative and summative, could take place digitally.</p> <p data-bbox="902 683 1500 715">4 credits <span style="float: right;">Internal</span></p>
Earth and Space Science	<p data-bbox="282 735 880 847"><b>AS91189</b> <span style="float: right;"><b>2.3</b></span>  <b>Investigate geological processes in a New Zealand locality</b></p> <p data-bbox="282 914 846 1018">Teaching, learning and assessment both formative and summative, could take place digitally.</p> <p data-bbox="282 1086 880 1118">4 credits <span style="float: right;">Internal</span></p>	<p data-bbox="902 735 1496 847"><b>AS91412</b> <span style="float: right;"><b>3.3</b></span>  <b>Investigate the evidence related to dating geological event(s)</b></p> <p data-bbox="902 914 1462 1018">Teaching, learning and assessment both formative and summative, could take place digitally.</p> <p data-bbox="902 1086 1500 1118">4 credits <span style="float: right;">Internal</span></p>

Domain	Level 2	Level 3
Earth and Space Science	<p data-bbox="280 193 882 304"><b>AS91190</b> <span style="float: right;"><b>2.4</b></span>  <b>Investigate how organisms survive in an extreme environment</b></p> <p data-bbox="280 373 846 485">Teaching, learning and assessment both formative and summative, could take place digitally.</p> <p data-bbox="280 644 882 676">4 credits <span style="float: right;">Internal</span></p>	<p data-bbox="900 193 1500 304"><b>AS91415</b> <span style="float: right;"><b>3.6</b></span>  <b>Investigate an aspect of astronomy</b></p> <p data-bbox="900 341 1467 453">Teaching, learning and assessment both formative and summative, could take place digitally.</p> <p data-bbox="900 644 1500 676">4 credits <span style="float: right;">Internal</span></p>

Domain	Level 2	Level 3
Earth and Space Science	<p data-bbox="282 193 880 309"><b>AS91191</b> <span style="float: right;"><b>2.5</b></span>  <b>Demonstrate understanding of the causes of extreme Earth events in New Zealand</b></p> <p data-bbox="282 379 880 480">This standard is suitable for remote teaching, learning and assessment. The current Assessment Specifications continue to apply.</p> <p data-bbox="282 644 880 676">4 credits <span style="float: right;">External</span></p>	<p data-bbox="902 193 1500 309"><b>AS91413</b> <span style="float: right;"><b>3.4</b></span>  <b>Demonstrate understanding of processes in the ocean system</b></p> <p data-bbox="902 379 1500 480">This standard is suitable for remote teaching, learning and assessment. The current Assessment Specifications continue to apply.</p> <p data-bbox="902 644 1500 676">4 credits <span style="float: right;">External</span></p>
Earth and Space Science	<p data-bbox="282 699 880 815"><b>AS91192</b> <span style="float: right;"><b>2.6</b></span>  <b>Demonstrate understanding of stars and planetary systems</b></p> <p data-bbox="282 885 880 986">This standard is suitable for remote teaching, learning and assessment. The current Assessment Specifications continue to apply.</p> <p data-bbox="282 1054 880 1086">4 credits <span style="float: right;">External</span></p>	<p data-bbox="902 699 1500 815"><b>AS91414</b> <span style="float: right;"><b>3.5</b></span>  <b>Demonstrate understanding of processes in the atmosphere system</b></p> <p data-bbox="902 885 1500 986">This standard is suitable for remote teaching, learning and assessment. The current Assessment Specifications continue to apply.</p> <p data-bbox="902 1054 1500 1086">4 credits <span style="float: right;">External</span></p>

Domain	Level 2
Earth and Space Science	<p data-bbox="280 193 880 225"><b>AS91193</b> <span style="float: right;"><b>2.7</b></span></p> <p data-bbox="280 240 880 347"><b>Demonstrate understanding of the physical principles related to the Earth System</b></p> <p data-bbox="280 416 880 523">This standard is suitable for remote teaching, learning and assessment. The current Assessment Specifications continue to apply.</p> <p data-bbox="280 639 880 671">4 credits <span style="float: right;">External</span></p>