

# Summary: Science

## Changes in Australian Curriculum Version 9.0

### About the learning area

Section	Revision
<b>Rationale</b>	<ul style="list-style-type: none"><li>• reviewed to include an enhanced reference to STEM</li></ul>
<b>Aims</b>	<ul style="list-style-type: none"><li>• limited editorial changes</li></ul>
<b>Structure</b>	<ul style="list-style-type: none"><li>• limited editorial changes</li></ul>
<b>Key considerations</b>	<ul style="list-style-type: none"><li>• new section addressing<ul style="list-style-type: none"><li>– safety</li><li>– animal ethics and biosecurity</li><li>– protocols for engaging First Nations Australians</li><li>– meeting the needs of diverse learners</li></ul></li></ul>
<b>Key connections</b>	<ul style="list-style-type: none"><li>• new section addressing<ul style="list-style-type: none"><li>– general capabilities</li><li>– cross-curriculum priorities</li><li>– learning area connections</li></ul></li></ul>
<b>Resources</b>	<ul style="list-style-type: none"><li>• new section</li><li>• reference to downloads including<ul style="list-style-type: none"><li>– <i>About the learning area</i></li><li>– <i>Curriculum content in P–6 and 7–10</i></li><li>– <i>Scope and sequence</i></li><li>– <i>Glossary</i></li><li>– <i>Comparative information about v8.4 and v9.0</i></li></ul></li><li>• teacher background information supporting the teaching of Aboriginal and Torres Strait Islander histories and cultures</li></ul>

### Curriculum elements

Section	Revision
<b>Level descriptions</b>	<ul style="list-style-type: none"><li>• reviewed and updated to align with revised content descriptions</li><li>• sample inquiry questions included for each year level</li></ul>
<b>Achievement standards</b>	<ul style="list-style-type: none"><li>• reviewed to align with revised content descriptions</li></ul>
<b>Content structure</b>	<ul style="list-style-type: none"><li>• addition of cognitive verbs in the Science understanding and Science as a human endeavour content descriptions</li></ul>
<b>Content descriptions</b>	<ul style="list-style-type: none"><li>• reviewed and refined language of content descriptions with some movement of knowledge and skills to refine the progression between year levels</li><li>• movement across year levels, see Content movement below</li></ul>

	<ul style="list-style-type: none"> <li>• Science as a human endeavour <ul style="list-style-type: none"> <li>– in Prep–Year 6, content descriptions have been reframed to ensure students learn about the nature of science through a focus on how students engage in inquiry</li> <li>– in Years 7–10, content descriptions have been revised to focus on strengthening student understanding of the relationship between science and society and the role of science communication</li> </ul> </li> <li>• Science inquiry content descriptions have been refined to reflect contemporary science practices including understanding intercultural inquiry practices, modelling and argumentation</li> </ul>
<b>Content elaborations</b>	<ul style="list-style-type: none"> <li>• multiple additions, deletions and refinements to reflect content refinement</li> <li>• consistent organisation of the Science understanding elaborations to <ul style="list-style-type: none"> <li>– support understanding of the content</li> <li>– support application of the content</li> <li>– embed general capabilities and/or cross-curriculum priorities</li> </ul> </li> </ul>

## Content movement

Content	From	To
Daily and seasonal changes	Prep	Year 1
Living things have basic needs	Prep	Year 1
Observation of external features of living things	Year 1	Prep
Changes in the sky and landscape	Year 1	Year 2
Sound	Year 1	Year 2
Physical changes to materials	Year 1	Year 2
Life cycles	Years 2 and 4	Year 3
Use of Earth's resources	Year 2	Year 3
Pushes and pulls	Year 2	Year 1
Grouping organisms based on features	Year 3	Prep
Day and night	Years 3	Year 6
Changes to the Earth's surface	Year 4	Year 5
Earth as part of a system of planets	Year 5	Year 2
Water cycle	Year 7	Year 4
Particle theory	Year 8	Year 7
Matter and energy in ecosystems	Year 9	Year 7
Plate tectonics	Year 9	Year 8
Conservation of energy	Year 10	Year 9
The carbon cycle	Year 10	Year 9
Making predictions and describing patterns and relationships	Years 3–4 band	Years 1–2 band
How people use data to develop scientific explanations	Years 5–6 band	Years 3–4 band
The building of science knowledge through collaboration	Years 7–8 band	Years 5–6 band

 © State of Queensland (QCAA) 2022

**Licence:** <https://creativecommons.org/licenses/by/4.0> | **Copyright notice:** [www.qcaa.qld.edu.au/copyright](http://www.qcaa.qld.edu.au/copyright) — lists the full terms and conditions, which specify certain exceptions to the licence. |

**Attribution** (include the link): © State of Queensland (QCAA) 2022 [www.qcaa.qld.edu.au/copyright](http://www.qcaa.qld.edu.au/copyright).