

## ClimateWatch and the National Science Curriculum

Details of the Australian Curriculum can be found at <http://www.australiancurriculum.edu.au/science/Curriculum/F-10>

For the younger Levels F–2, ClimateWatch offers an exciting way to **observe** the **local environment**, learning about how plants and animals respond to the **seasons**.

In Levels 3–6, ClimateWatch can engage students in the **life cycles** of different species, and inspire **investigative** study.

During the upper Levels 7–10, ClimateWatch is a real life way to show students the concepts of **biodiversity** and **climate change**, while exposing them to real field research.

Level	Code	Cross-curriculum priorities and general capabilities
F –what are the seasons to animals and plants	<p><b>ACSSU004:</b> Daily and seasonal changes in our environment, including the weather, affect everyday life (including how changes in the weather might affect animals)</p> <p><b>ACSHE103:</b> Science involves exploring and observing the world using the senses</p> <p><b>AC SIS233:</b> Engage in discussions about observations and use methods such as drawing to represent ideas</p>	<ul style="list-style-type: none"> <li>• Aboriginal and Torres Strait Islander histories and cultures</li> <li>• Sustainability</li> <li>• Personal and social capacity</li> <li>• Intercultural understanding</li> <li>• Critical and creative thinking</li> <li>• Literacy</li> <li>• Information and communication technology capability (L2)</li> <li>• Numeracy (L2)</li> </ul>
1 –seasons, local environment	<p><b>ACSSU019:</b> Observable changes occur in the sky and landscape</p> <p><b>ACSHE021:</b> Science involved asking questions about, and describing changes in, objects and events</p> <p><b>AC SIS213:</b> Compare observations with those of others</p>	
2 – seasons, observations, life stages of animals/plants	<p><b>ACSSU030:</b> Living things grow, change and have offspring similar to themselves</p> <p><b>ACSHE034:</b> Science involves asking questions about, and describing changes in, objects and events</p> <p><b>AC SIS039:</b> Use informal measurements in the collection and recording of observations, with the assistance of digital technologies as appropriate</p>	
3 – identifying	<p><b>ACSSU044:</b> Living things can be grouped on the basis of observable features and</p>	

different living things, designing experiments (taking part in science)	<p>can be distinguished from non-living things</p> <p><b>AC SIS054:</b> Suggest ways to plan and conduct investigations to find answers to questions</p>	<ul style="list-style-type: none"> <li>• Aboriginal and Torres Strait Islander histories and cultures</li> <li>• Personal and social capacity</li> <li>• Intercultural understanding</li> <li>• Critical and creative thinking</li> <li>• Literacy</li> <li>• Information and communication technology capability</li> <li>• Numeracy</li> </ul>
4 – the life stages of plants and animals	<p><b>ACSSU072:</b> Living things have life cycles</p> <p><b>ACSSU073:</b> Living things, including plants and animals, depend on each other and the environment to survive</p> <p><b>ACSSU075:</b> Earth’s surface changes over time as a result of natural processes and human activity</p> <p><b>ACSHE061:</b> Science involves making predictions and describing patterns and relationships</p> <p><b>AC SIS065:</b> Suggest ways to plan and conduct investigations to find answers to questions</p>	
5- scientific investigation, species features	<p><b>ACSSU043:</b> Living things have structural features and adaptations that help them to survive in their environment</p> <p><b>ACSHE081:</b> Science involves testing predictions by gathering data and using evidence to develop explanations of events and phenomena</p> <p><b>AC SIS091:</b> Suggest improvements to the methods used to investigate a question or solve a problem</p> <p><b>AC SIS231:</b> With guidance, pose questions to clarify practical problems or inform a scientific investigation, and predict what the findings of an investigation might be</p> <p><b>AC SIS093:</b> Communicate ideas, explanations and processes in a variety of ways, including multi-modal texts</p>	
6-scientific investigation and reporting	<p><b>ACSSU094:</b> The growth and survival of living things are affected by the physical conditions of their environment (considering the effects of physical conditions causing migration and hibernation)</p> <p><b>ACSHE098:</b> Science involves testing predictions by gathering data and using evidence to develop explanations of events and phenomena</p>	

	<p><b>AC SIS231:</b> With guidance, pose questions to clarify practical problems or inform a scientific investigation, and predict what the findings of an investigation might be</p> <p><b>AC SIS110:</b> Communicate ideas, explanations and processes in a variety of ways, including multi-modal texts</p>	
<p>7 – biodiversity, multi-disciplinary research (indigenous studies) contributes too</p>	<p><b>ACSSU111:</b> There are differences within and between groups of organisms; classification helps organise this diversity</p> <p><b>ACSHE223:</b> Science knowledge can develop through collaboration and connecting ideas across the disciplines of science (traditional and Western scientific knowledge can be used in combination to care for Country and Place)</p> <p><b>ACSHE224:</b> People use understanding and skills from across the disciplines of science in their occupations (considering how seasonal changes affect people in a variety of activities such as farming)</p> <p><b>AC SIS125:</b> Collaboratively and individually plan and conduct a range of investigation types, including fieldwork and experiments, ensuring safety and ethical guidelines are followed</p> <p><b>AC SIS133:</b> Communicate ideas, findings and solutions to problems using scientific language and representations using digital technologies as appropriate</p>	<ul style="list-style-type: none"> <li>• Sustainability</li> <li>• Aboriginal and Torres Strait Islander histories and cultures</li> <li>• Personal and social capacity</li> <li>• Intercultural understanding</li> <li>• Critical and creative thinking</li> <li>• Literacy</li> <li>• Information and communication technology capability</li> <li>• Numeracy</li> </ul>
<p>8-science and technology, field research</p>	<p><b>ACSHE135:</b> Science and technology contribute to finding solutions to a range of contemporary issues; these solutions may impact on other areas of society and involve ethical considerations</p> <p><b>AC SIS140:</b> Collaboratively and individually plan and conduct a range of investigation types, including fieldwork and experiments, ensuring safety and ethical guidelines are followed</p> <p><b>AC SIS148:</b> Communicate ideas, findings and solutions to problems using scientific language and representations using digital technologies as appropriate</p>	
<p>9-ecosystem science, science and</p>	<p><b>ACSSU176:</b> Ecosystems consist of communities of interdependent organisms and abiotic components of the environment; matter and energy flow through these systems</p>	

<p>technology, field research</p>	<p><b>AC SIS165:</b> Plan, select and use appropriate investigation methods, including field work and laboratory experimentation, to collect reliable data; assess risk and address ethical issues associated with these methods</p> <p><b>AC SIS166:</b> Select and use appropriate equipment, including digital technologies, to systematically and accurately collect and record data</p> <p><b>AC SIS169:</b> Analyse patterns and trends in data, including describing relationships between variables and identifying inconsistencies</p>	
<p>10-science and technology, field research.</p>	<p><b>AC SSU185:</b> The theory of evolution by natural selection explains the diversity of living things and is supported by a range of scientific evidence</p> <p><b>AC SIS199:</b> Plan, select and use appropriate investigation methods, including field work and laboratory experimentation, to collect reliable data; assess risk and address ethical issues associated with these methods</p> <p><b>AC SIS200:</b> Select and use appropriate equipment, including digital technologies, to systematically and accurately collect and record data</p>	