

# The Australian Curriculum Science



## Table of Contents

<b>Curriculum F–10</b>	3
Foundation Year	3

## Foundation Year

The science content includes the three strands of *Science Understanding*, *Science Inquiry Skills* and *Science as a Human Endeavour*. The three strands of the curriculum are interrelated and their content is taught in an integrated way. The order and detail in which the content descriptions are organised into teaching/learning programs are decisions to be made by the teacher.

From Foundation to Year 2, students learn that observations can be organised to reveal patterns, and that these patterns can be used to make predictions about phenomena. In Foundation, students observe and describe the behaviours and properties of everyday objects, materials and living things. They explore change in the world around them, including changes that impact on them, such as the weather, and changes they can effect, such as making things move or change shape. They learn that seeking answers to questions and making observations is a core part of science and use their senses to gather different types of information.

### Science Understanding

Biological sciences	Elaborations
<p>Living things have basic needs, including food and water (ACSSU002)</p> 	<ul style="list-style-type: none"> <li>identifying the needs of humans such as warmth, food and water, using students' own experiences</li> <li>recognising the needs of living things in a range of situations such as pets at home, plants in the garden or plants and animals in bushland</li> <li>comparing the needs of plants and animals</li> </ul>
Chemical sciences	Elaborations
<p>Objects are made of materials that have observable properties (ACSSU003)</p> 	<ul style="list-style-type: none"> <li>sorting and grouping materials on the basis of observable properties such as colour, texture and flexibility</li> <li>thinking about how the materials used in buildings and shelters are suited to the local environment</li> <li>investigating different forms of clothing used for different activities</li> <li>comparing the traditional materials used for clothing from around the world</li> </ul>
Earth and space sciences	Elaborations
<p>Daily and seasonal changes in our environment, including the weather, affect everyday life (ACSSU004)</p> 	<ul style="list-style-type: none"> <li>linking the changes in the daily weather to the way we modify our behaviour and dress for different conditions, including examples from different cultures</li> <li>investigating how changes in the weather might affect animals such as pets, animals that hibernate, or migratory animals</li> <li>learning how Aboriginal and Torres Strait Islander concepts of time and weather patterns explain how things happen in the world around them</li> </ul>
Physical sciences	Elaborations

The way objects move depends on a variety of factors, including their size and shape (ACSSU005)



- observing the way different shaped objects such as balls, blocks and tubes move
- comparing the way different sized, but similar shaped, objects such as tennis balls, golf balls, marbles and basketballs roll and bounce
- observing how the movement of different living things depends on their size and shape

### Science as a Human Endeavour

#### Nature and development of science

#### Elaborations

Science involves exploring and observing the world using the senses (ACSHE013)



- recognising that observation is an important part of exploring and investigating the things and places around us
- sharing observations with others and communicating their experiences
- exploring and observing using hearing, smell, touch, seeing and taste

### Science Inquiry Skills

#### Questioning and predicting

#### Elaborations

Respond to questions about familiar objects and events (ACSIS014)



- considering questions relating to the home and school and objects used in everyday life

#### Planning and conducting

#### Elaborations

Explore and make observations by using the senses (ACSIS011)



- using sight, hearing, touch, taste and smell so that students can gather information about the world around them

#### Processing and analysing data and information

#### Elaborations

Engage in discussions about observations and use methods such as drawing to represent ideas (ACSIS233)



- taking part in informal and guided discussions relating to students' observations
- using drawings to represent observations and ideas and discussing their representations with others

#### Communicating

#### Elaborations

Share observations and ideas (ACSIS012)



- working in groups to describe what students have done and what they have found out
- communicating ideas through role play and drawing