



Chapel Hill State School

Science Curriculum and Assessment Overview 2024

YEAR 2



Curriculum Intent

Year Level Description

The science inquiry skills and science as a human endeavour strands are described across a two-year band. In their planning, schools and teachers refer to the expectations outlined in the achievement standard and also to the content of the science understanding strand for the relevant year level to ensure that these two strands are addressed over the two-year period. 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 and learning programs are decisions to be made by the teacher.

Incorporating the key ideas of science

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 Year 1, students infer simple cause-and-effect relationships from their observations and experiences, and begin to link events and phenomena with observable effects and to ask questions. They observe changes that can be large or small and happen quickly or slowly. They explore the properties of familiar objects and phenomena, identifying similarities and differences. Students begin to value counting as a means of comparing observations, and are introduced to ways of organising their observations.

Achievement Standards

Spiral Progression and Alignment

Developing the same concepts from one grade level to the next in increasing complexity and application.

YEAR 1

By the end of Year 1, students describe objects and events that they encounter in their everyday lives, and the effects of interacting with materials and objects. They describe changes in their local environment and how different places meet the needs of living things.

Students respond to questions, make predictions, and participate in guided investigations of everyday phenomena. They follow instructions to record and sort their observations and share them with others.

YEAR 2

By the end of Year 2, students describe changes to objects, materials and living things. They identify that certain materials and resources have different uses and describe examples of where science is used in people's daily lives.

Students pose and respond to questions about their experiences and predict outcomes of investigations. They use informal measurements to make and compare observations. They record and represent observations and communicate ideas in a variety of ways.

YEAR 3

By the end of Year 3, students use their understanding of the movement of Earth, materials and the behaviour of heat to suggest explanations for everyday observations. They group living things based on observable features and distinguish them from non-living things. They describe how they can use science investigations to respond to questions.

Students use their experiences to identify questions and make predictions about scientific investigations. They follow procedures to collect and record observations and suggest possible reasons for their findings, based on patterns in their data. They describe how safety and fairness were considered and they use diagrams and other representations to communicate their ideas.

Year 2		Science Curriculum and Assessment Overview		Chapel Hill State School	
Term 1	Term 2	Term 3	Term 4		
Unit 1	Unit 2	Unit 4	Unit 3		
<p>Mix, Make and Use</p> <p>Students investigate combinations of different materials and give reasons for the selection of particular materials according to their properties and purpose. Students understand that science involves asking questions about, and describing changes to, familiar objects and materials. They describe changes made to materials when combining them to make an object that has a purpose in everyday life. Students pose questions, make predictions and follow instructions to record observations in a guided investigation. They represent and communicate their observations using scientific language</p>	<p>Toy Factory</p> <p>Students understand how a push or pull affects how an object moves or changes shape. They understand that science involves asking questions about and describing changes in the way an object moves or can be moved and how this knowledge is used in their daily lives. They pose questions and make predictions about changes that can affect how an object moves, and investigate and explain how pushes and pulls cause movement in objects, comparing their observations with predictions. They use informal measurements to make and compare observations about movement and sort information about the way toys move. They then apply this science knowledge in explaining how pushes and pulls can be used to change the movement of a toy or object they create.</p>	<p>Save Planet Earth</p> <p>Students investigate Earth's resources. They describe how Earth's resources are used and the importance of conserving resources for the future of all living things. They use informal measurements to record observations from experiments. Students use their science knowledge of conservation to propose and explain actions that can be taken to conserve Earth's resources, and decisions they can make in their everyday lives. Students share their ideas about conservation of Earth's resources in a presentation. Students learn how Aboriginal and Torres Strait Islander peoples use their knowledge of conservation in their everyday lives.</p>	<p>Good to Grow</p> <p>Students examine how living things, including plants and animals, change as they grow. They ask questions about, investigate and compare the changes that occur to different living things during their life stages. Students consider how Aboriginal peoples and Torres Strait Islander peoples living a traditional lifestyle use the knowledge of life stages of animals and plants in their everyday lives. They conduct investigations including exploring the growth and life stages of a class animal and plant. Students respond to questions, make predictions, use informal measurements, sort information, compare observations, and represent and communicate observations and ideas.</p>		
Assessment					
<p>Combining materials for a purpose</p> <p><i>Open Ended Inquiry Investigation</i></p> <p>Students investigate the combination of materials used to make an object for a particular purpose. They record and represent observations and communicate ideas.</p> <p>(Linked to U3 Design Technology and U1 HASS)</p>	<p>Designing a toy</p> <p><i>Experimental investigation</i></p> <p>Students design a toy that moves with a push or pull, and describe a change to the toy and how it affects the toy's movement. They pose an investigation question and make a prediction about the toy's movement. Students represent and communicate observations and ideas</p> <p>(Linked to U3 Design Technology and U1 HASS)</p>	<p>Using Earth's resources</p> <p><i>Report</i></p> <p>Students identify different uses of one of Earth's resources and describe ways to conserve it. They use informal measurements to make observations.</p>	<p>Exploring growth</p> <p><i>Supervised assessment</i></p> <p>Students describe and represent the changes to a living thing in its life stages. They compare the life stages of two different living things.</p> <p>(Linked to U5 English)</p>		
Achievement Standard – Elements Assessed					
<p>By the end of Year 2, students describe changes to objects, materials and living things. They identify that certain materials and resources have different uses and describe examples of where science is used in people's daily lives.</p> <p>Students pose and respond to questions about their experiences and predict outcomes of investigations. They use informal measurements to make and compare observations. They record and represent observations and communicate ideas in a variety of ways.</p>	<p>By the end of Year 2, students describe changes to objects, materials and living things. They identify that certain materials and resources have different uses and describe examples of where science is used in people's daily lives.</p> <p>Students pose and respond to questions about their experiences and predict outcomes of investigations. They use informal measurements to make and compare observations. They record and represent observations and communicate ideas in a variety of ways.</p>	<p>By the end of Year 2, students describe changes to objects, materials and living things. They identify that certain materials and resources have different uses and describe examples of where science is used in people's daily lives.</p> <p>Students pose and respond to questions about their experiences and predict outcomes of investigations. They use informal measurements to make and compare observations. They record and represent observations and communicate ideas in a variety of ways.</p>	<p>By the end of Year 2, students describe changes to objects, materials and living things. They identify that certain materials and resources have different uses and describe examples of where science is used in people's daily lives.</p> <p>Students pose and respond to questions about their experiences and predict outcomes of investigations. They use informal measurements to make and compare observations. They record and represent observations and communicate ideas in a variety of ways.</p>		