

Science & Nature Play Term 4 Overview 2023

Students will learn about science using all three strands of the Australian curriculum (version 9.0): science understanding; science as a human endeavour; and science inquiry. The cross-curriculum priorities of Aboriginal and Torres Strait Islander Histories and Cultures and Sustainability will feature in many lessons as will all seven of the general capabilities, particularly Critical and Creative Thinking, Literacy and Numeracy. All units will regularly incorporate Cultures of Thinking routines.

Year 3 and 4 classes - Chemical Science

Investigate the observable properties of solids and liquids and how adding or removing heat energy leads to a change of state *AC9S3U04*

- observing the properties of substances and classifying them as solids (that hold their shape) or liquids (that fill the bottom of containers)
- investigating ice melting or water freezing in a sealed bag and explaining their observations
- using ice cubes, butter or chocolate to explore how changes of state involve the removal of heat or the addition of heat
- investigating how changes of state in materials used by First Nations Australians such as beeswax or resins are important for their use
- exploring how changes from solid to liquid and liquid to solid can help us recycle materials such as glass or plastics

Year 5/6 classes – Chemical Science

Explain observable properties of solids, liquids and gases by modelling the motion and arrangement of particles *AC9S5U04*

- classifying substances as solids, liquids and gases and investigating their properties
- exploring examples that demonstrate that gases have mass, such as blowing air through straws to move objects or using a balance to compare an empty balloon to one filled with air
- using role-play to model the arrangement and motion of particles in solids, liquids and gases
- observing a virtual demonstration of coloured gases being compressed and providing an explanation for the change in colour intensity
- exploring, through guided discussion, ideas about what is between particles
- recognising First Nations Australians' knowledges and understandings of solids, liquids and gases and how these knowledges are applied in a range of processes and practices, including the extraction of oils, medical therapies and cooking

Nature Play sessions throughout the year will link to the Australian Curriculum across four Outdoor Learning dimensions: Skills and Knowledge, Human-Nature Relationships, Conservation and Sustainability and Health and Wellbeing. These dimensions will connect to curriculum content in Science, Humanities and Social Sciences and Health and Physical Education.

Year 2 & 3 classes

Students in these classes will participate in a variety of activities designed to improve: creativity; risk assessment; ability to work well with others; and connection to nature. There will be numerous opportunities to explore natural elements in a variety of ways as well as quietly reflect on the nature around them at Bellevue Heights Primary School.