

SCIENCE GALLERY MELBOURNE

CURRICULUM LINKS

SWARM: Drone Workshop

Level 7-8

Critical and Creative Thinking

Suspend judgements temporarily and consider how preconceptions may limit ideas and alternatives ([VCCCTQ033](#))

Ethical

Discuss the role of context and experience in ethical decision-making and actions ([VCECD018](#))

Personal and Social Capability

Explore their personal values and beliefs and analyse how these values and beliefs might be different or similar to those of others ([VCPSCSO038](#))

Design and Technologies

Examine and prioritise competing factors including social, ethical, economic and sustainability considerations in the development of technologies and designed solutions to meet community needs for preferred futures ([VCDSTS043](#))

Investigate the ways in which designed solutions evolve locally, nationally, regionally and globally through the creativity, innovation and enterprise of individuals and groups ([VCDSTS044](#))

Digital Technologies

Define and decompose real-world problems taking into account functional requirements and sustainability (economic, environmental, social), technical and usability constraints ([VCDTCD040](#))

Science

Scientific knowledge and understanding of the world changes as new evidence becomes available; science knowledge can develop through collaboration and connecting ideas across the disciplines and practice of science ([VCSSU089](#))

Level 9-10

Critical and Creative Thinking

Suspend judgements to allow new possibilities to emerge and investigate how this can broaden ideas and solutions ([VCCCTQ044](#))

Ethical

Discuss issues raised by thinking about consequences and duties, in approaches to decision-making and action, and arguments for and against these approaches ([VCECD022](#))

Personal and Social Capability

Analyse how divergent values and beliefs contribute to different perspectives on social issues ([VCPSCSO047](#))

Design and Technologies

Critically analyse factors, including social, ethical and sustainability considerations, that impact on designed solutions for global preferred futures and the complex design and production processes involved ([VCDSTS054](#))

Explain how designed solutions evolve with consideration of preferred futures and the impact of emerging technologies on design decisions ([VCDSTS055](#))

Science

Advances in scientific understanding often rely on developments in technology and technological advances are often linked to scientific discoveries ([VCSSU115](#))

The values and needs of contemporary society can influence the focus of scientific research ([VCSSU116](#))

Level 7-8**Science (continued.)**

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 ([VCSSU090](#))

Mathematics

Demonstrate that the angle sum of a triangle is 180° and use this to find the angle sum of a quadrilateral ([VCMMG263](#))

Classify triangles according to their side and angle properties and describe quadrilaterals ([VCMMG262](#))

Identify corresponding, alternate and co-interior angles when two straight lines are crossed by a transversal ([VCMMG264](#))

Visual Arts

Explore visual arts practices as inspiration to explore and develop themes, concepts or ideas in artworks ([VCAVAE033](#))

Explore how artists use materials, techniques, technologies and processes to realise their intentions in artworks ([VCAVAE034](#))

Analyse how ideas and viewpoints are expressed in artworks and how they are viewed by audiences ([VCAVAR038](#))

Identify and connect specific features of visual artworks from different cultures, historical and contemporary times, including artworks by Aboriginal and Torres Strait Islander peoples ([VCAVAR039](#))

Level 9-10**Mathematics**

Investigate Pythagoras' Theorem and its application to solving simple problems involving right angled triangles ([VCMMG318](#))

Apply trigonometry to solve right-angled triangle problems ([VCMMG320](#))

Visual Arts

Explore the visual arts practices and styles as inspiration to develop a personal style, explore, express ideas, concepts and themes in art works ([VCAVAE040](#))

Explore how artists manipulate materials, techniques, technologies and processes to develop and express their intentions in art works ([VCAVAE041](#))

Analyse and interpret artworks to explore the different forms of expression, intentions and viewpoints of artists and how they are viewed by audiences ([VCAVAR045](#))