

Connections to the Australian Curriculum

By engaging with MathsCraft, students will develop their skills in the Australian Curriculum's Mathematics Proficiency¹ strands as well as the General Capabilities².

The Australian Curriculum: Mathematical Proficiencies addressed by the MathsCraft Curriculum:

- Understanding
- Problem Solving
- Reasoning

The Australian Curriculum: General Capabilities addressed by the MathsCraft Curriculum:

- Critical and Creative Thinking
- Numeracy
- Literacy
- Personal and Social Capability

Most current curricula include something like the Australian Curriculum's Mathematical Proficiencies and General Capabilities.

¹ <https://v9.australiancurriculum.edu.au/teacher-resources/understand-this-learning-area/mathematics#text-63d996bc69>

² <https://v9.australiancurriculum.edu.au/f-10-curriculum/f-10-curriculum-overview/general-capabilities>

AUSTRALIAN CURRICULUM GENERAL CAPABILITIES IN MORE DETAIL

✓ *students can gain practice at this capability by participating in the MathsCraft Curriculum. (NB: the information below pertains to v8.4 of the Australian Curriculum³.)*

CRITICAL AND CREATIVE THINKING

<i>Inquiring — identifying, exploring and organising information and ideas</i>	
Pose questions	✓
Identify and clarify information and ideas	✓
Organise and process information	✓
<i>Generating ideas, possibilities and actions</i>	
Imagine possibilities and connect ideas	✓
Consider alternatives	✓
Seek solutions and put ideas into action	✓
<i>Reflecting on thinking and processes</i>	
Think about thinking (metacognition)	✓
Reflect on processes	✓
Transfer knowledge into new contexts	✓
<i>Analysing, synthesising and evaluating reasoning and procedures</i>	
Apply logic and reasoning	✓
Draw conclusions and design a course of action	✓
Evaluate procedures and outcomes	✓

NUMERACY

<i>Estimating and calculating with whole numbers</i>	
Understand and use numbers in context	✓
Estimate and calculate	✓
Use money	-
<i>Recognising and using patterns and relationships</i>	
✓	
<i>Using fractions, decimals, percentages, ratios and rates</i>	
Interpret proportional reasoning	✓
Apply proportional reasoning	✓
<i>Using spatial reasoning</i>	
Visualise 2D shapes and 3D objects	✓
Interpret maps and diagrams	-
<i>Interpreting statistical information</i>	
Interpret data displays	-
Interpret chance events	-
<i>Using measurement</i>	
Estimate and measure with metric units	-
Operate with clocks, calendars and timetables	-

³ <https://australiancurriculum.edu.au/f-10-curriculum/general-capabilities/>

LITERACY

Comprehending texts through listening, reading and viewing

Navigate, read and view learning area texts	-
Listen and respond to learning area texts	-
Interpret and analyse learning area texts	-

Composing texts through speaking, writing and creating

Compose spoken, written, visual and multimodal learning area texts	✓
Use language to interact with others	✓
Deliver presentations	✓

Text knowledge

Use knowledge of text structures	-
Use knowledge of text cohesion	-

Grammar knowledge

Use knowledge of sentence structures	-
Use knowledge of words and word groups	-
Express opinion and point of view	✓

Word knowledge

Understand learning area vocabulary	✓
Use spelling knowledge	-

Visual Knowledge

Understand how visual elements create meaning	✓
---	---

PERSONAL AND SOCIAL CAPABILITY

Self-awareness

Recognise emotions	-
Recognise personal qualities and achievements	-
Understand themselves as learners	✓
Develop reflective practice	✓

Self-management

Express emotions appropriately	-
Develop self-discipline and set goals	✓
Work independently and show initiative	✓
Become confident, resilient and adaptable	✓

Social awareness

Appreciate diverse perspectives	✓
Contribute to civil society	-
Understand relationships	-

Social management

Communicate effectively	✓
Work collaboratively	✓
Make decisions	✓
Negotiate and resolve conflict	-
Develop leadership skills	-