

## Mathematics

Australian Curriculum Version 9.0

The Australian Curriculum identifies and organises the essential knowledge, understandings and skills that students should learn. This overview summarises the key elements of this learning area.

### Rationale summary

Mathematics develops the numeracy capabilities needed to make informed, efficient decisions in the real world, and to learn the fundamentals on which further mathematics is built.

### Aims summary

Mathematics develops confident, proficient and effective users of mathematics by cultivating the ability to pose and solve problems and to recognise the connections between different areas of mathematics.

## Content descriptions

Content descriptions describe what is to be taught and what students are expected to learn. Content descriptions are organised through strands.

Number Algebra Measurement Space Statistics Probability

Embedded within strands is the content to develop proficiency in Mathematics and the mathematical processes.

### Proficiency in mathematics

Understanding Fluency Reasoning Problem-solving

### Mathematical processes

Mathematical modelling Computational thinking Statistical investigation Probability experimentation and simulations

## Achievement standards

Achievement standards for each learning area describe the learning expected of students by the end of each year. In Mathematics, the first paragraph of the achievement standard relates to Number and Algebra. The second paragraph relates to Measurement and Space. The third paragraph relates to Statistics and Probability. This learning area provides an achievement standard for each year.

Find out more on the QCAA Australian Curriculum page at [www.qcaa.qld.edu.au/p-10/aciq](http://www.qcaa.qld.edu.au/p-10/aciq).

## Year-by-year curriculum

### Level descriptions

Level descriptions provide an overview of the learning that students should experience in each year.

#### Primary

P

1

2

3

4

5

6

#### Secondary

7

8

9

10

Optional Year 10 content

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