## Year 6 Mathematics <br> Curriculum and assessment plan

Example

## Level description

Context and cohort considerations
In Year 6, learning in Mathematics builds on each student's prior learning and experiences. Students engage in a range of approaches to learning and doing mathematics that develop their understanding of and fluency with concepts, procedures and processes by making connections, reasoning, problem-solving and practice. Proficiency in mathematics enables students to respond to familiar and unfamiliar situations by employing mathematical strategies to make informed decisions and solve problems efficiently

Students further develop proficiency and positive dispositions towards mathematics and its use as they

- expand the repertoire of numbers they work with to include rational numbers and the use of integers in practical contexts such as locating points in the 4 quadrants of a Cartesian plane
- extend their knowledge of factors and multiples to understand the properties of prime, composite and square numbers
- solve arithmetic problems involving all 4 operations with natural numbers of any size
- use mathematical modelling to solve practical problems, choosing models, representations and calculation strategies and justify solutions
- apply computational approaches to develop algorithms that use rules to generate numbers
- develop a range of written and digital means for representing objects and three-dimensional spaces in 2 dimension
- apply their understanding of area and use multiplicative thinking to establish the formula for the areas of a rectangle
- begin to formally use deductive reasoning in spatial contexts involving lines and angles
- describe and compare probabilities numerically
- determine the mode and range and discuss the shape of distributions in their reports of findings from their statistical investigations
- observe and compare long-run frequencies in repeated chance experiments and simulations.

The Year 6 cohort participate in daily mathematics learning. This plan has considered:

- summative and formative data from Year 5 showing the need to support and extend on their emerging measurement and fractional understandings
exploration and use of digital tools, e.g. virtual material electronic devices, simulation programs and dynamic geometric software, in relevant contexts that support the learning and doing of mathematics

Across the year, the contexts for teaching and learning eflect authentic learning experiences for the students. Unit 2 provides an opportunity to connect statistical investigations to the Science learning area. Unit 4 provides an opportunity to engage in problem-solving using the Year 6 graduation dinner party as a context for learning

Students develop their critical and creative thinking skills when they interpret mathematical concepts or problems by breaking them into component parts for analysis. This anaysis can then be used to develop rules and make generalisations. In order to develop this understanding of ris and generalisations, students explore the properties of a rectangle.

In the first phase of this unit, students investigate the properties of prime, composite and square numbers by using their understanding of factors and multiples from Year 5. Students continue to build upon this knowledge as they use physical materials to identify and explain how using toothpicks or counters to create growing patterns with triangles or squares to explore composite and square numbers. Number understandings are deepened as students investigate numerical equations involving bracket and combinations of operations. Students recognise the need for an agreed set of rules when carrying out multiple operations within the one number sentence. They use this understanding to find unknown values in equations and construct number sentences involving combinations of the four operations and brackets. Students then apply their understandings of the properties of numbers and operations by using computational thinking skills with function machines to model operations. The function machines show students ability to create algorithms with steps that generate sets of numbers

In the second phase of this unit, students use their understanding of multiplication and the properties numbers to establish the formula for the area of a rectangle. Using one centimetre grid paper and the array structure, students draw a variety of rectangles and record the length of the sides and related areas of the rectangles. Through this exploration of relationships, students establish to why a is measur in squard unis. to why area is measured in squared units.

Evidence of student learning from investigations throughou the unit is recorded in an investigation folio (annotated visually growing patterns, diagrams, number equations, explanations, function machine models, area of a rectangle

When students consider approaches to mathematical problems, they develop flexible thinking as ideas are tested and trialled, and adjustments are made. Creative
approaches also encourage connections between concepts and across learning areas. This unit provides opportunities make connections between decimal representations and the metric system, integers on number lines and as ortistical investigation within plane, and examie

In the first phase of this unit, students make connections between mathematical concepts by reviewing decimal number system understandings from Year 5 and applying his knowledge to add and subtract decimals and multiply connect decimal representations to the metric system and use their proficiency with metric units from Year 5 to convert between common units of length, mass and capacity, considering the most appropriate unit to use in calculations. Students further establish mathematical connections by expanding their repertoire of numbers to include integers. They extend the number line to include negative numbers and explore practical contexts that include positive and negative integers, e.g. exploring levators above and below ground level. Students the explore integers as coordinates on the Cartesian plane to make the connection that axes are number lines to locate points in the four quadrants of a Cartesian plane. Through practical explorations, students develop an understanding hat the Cartesian plane provides a visual way of describing ocation, e.g. through playing games such as battleship and Sting co-ordinates in the correct order to draw polygons, Evidence of student learning is collected in a supervised assessment task.

In the second phase of this unit, in response to stimulus, tudents build on Year 5 understandings to interpret and discrete and continuous numerical variables using orearative displays or visulis aios using graphs, side-by-side column graphs. Digital literacy skills are developed as students analyse data and compare distributions in terms of mode, range and shape to identify patterns. They investigate data representations in the media and discuss how distributions illustrate and con messages. Students then make connections between Mathematics and Science in a statistical investigation on how the growth and survival of plants is affected by changing the physical conditions. Students draw on their understandings of number and length to collect, record and represent continuous numerical data by measuring the height of plants over time. Using digital tools, students tabulate data and communicate findings with a line graph Evidence of student learning is collected in a learning ournal.

When exploring possible approaches it is important to change, combine or elaborate on ideas to find solutions Digital tools can be used to select and control a variety of features to create digital content and communicate creative solutions. In this unit, students develop digital literacy skills in probability and spatial contexts

In the first phase of this unit, students apply their understandings of factors and multiples from Unit 1 to fraction denominators, e.g. thirds, sixths, ninths, twelfths They explore equivalent representations of fractions (number lines, drawings and models), use their understanding of factors and multiples to make comparisons between these representations and explain then apply their understanding of fractions, decimals and percentage equivalents from Year 5 to multiple probabilit experiments within a project. Throughout the investigation report students compare outcomes recorded as common fractions and add and subtract fractions with related denominators using their understanding of equivalent fractions. Students assign probabilities and run simulations using digital tools, comparing observed frequencies to expected frequencies. They discuss how increasing the number of trials effects variation in results. Evidence of student learning will be demonstrated in their investigation report.

In the second phase of the unit, students continue to explore possibiities in spatial contexts and build upon their prior knowledge of angles from Year 5. Students investigate parallel cross-sections of objects through hands-on experiences by slicing through models at differen angles, e.g. vegetables or frit, play dough models or foam objects. They observe and record the faces from different cross-sections by taking photographs and making annotations in a digital investigation folio. Students learn when making a cross-section cut parallel to the congruent end faces in a right prism, the cross-section is congrue prisms is according to these two conguent faces Stud then apply angle knowledge to identify the relationships between angles on a straight line angles at a point and vertically opposite angles. In their digital folio, students create spatial representations and use number sentence to demonstrate their understanding of angle properties and how they are used to find unknown angles. Students then explore possibilities with transformations. They use their digital literacy skills to creatively use combinations of transformations to design a logo with dynamic geometric software. Spatial learning is communicated through a digita folio using multimedia

Realistic and engaging contexts support students to make predictions, test ideas and evaluate options when solving practical problems. In this unit students use mathematica modeling to take action when planning their graduation dinner event.

In the first phase of this unit, students draw on multiplicative hinking from Unit 1 and fractional knowledge from Units 2 and 3 to explore finding a familiar fraction, decimal or percentage of a quantity. They make links between percentages and their decimal equivalents, e.g. 30\% discount is equivalent to 0.3 , which can be calculated by diving the amount by 10 and multiplying the result by 3 , and
explore calculating fractions of quantities, e.g. recognising $\frac{2}{3}$ can be calculated by dividing the quantity by 3 and multiplying the result by 2 . Students then apply this knowledge, as critical and creative thinkers, to consider the costing of their graduation dinner. Students use the mathematical modelling process to work systematically to review menu options that consider dietary requirements and apply their knowledge of rational numbers (fractions ands Digital tools such as calculators and spreadshee may support students to record their calculations. Students use estimation, rounding and calculation strategies to formulate possible solutions for catering for the event for the Year 6 cohort and to consider the reasonableness of results. Students write a proposal determining menu options and a possible ticket price that meets a specific budget for the graduation dinner.

In the second phase of this unit, students take action to plan a travel itinerary for the invited guests for their graduation dinner. They create a schedule (timetable) for the graduation dinner based on their duration calculations, and researched travel times for invited guests (estimation are calculated by using a digital mapping tool). Students advise the guests on their expected travel times and suggested arrival times, so they do not arrive late for the event. Each guest is provided with a personalised timetable for the evening

Where there is one assessment item within a unit, the corresponding achievement standard aspect/s is indicated in blue.
Where there is a second assessment item within a unit, the corresponding achievement standard aspect/s is indicated in yellow.

Unit 1 - Discovering rules and patterns
Assessment 1 — Project: Involving computational thinking

Description: Through an investigation folio, a collection of responses from practical investigations is collated. The investigation
folio shows students' proficiency when:

- using the properties of prime, composite and square numbers to solve problems where they create visually growing patterns
- identifying and explaining rules used to create growing patterns
- finding unknown values in numerical equations involving combinations of arithmetic operations
- using computational thinking skills with function machines to model operations
- creating and using algorithms to generate sets of numbers, using a rule with function machines
- using the formula for the area of a rectangle to solve problems.

Technique: Project
Mode: Written (including diagrams, function machines, area representations)

## Conditions:

- issued in week 4 and completed over multiple lessons by end of week 8

Unit 2 - Creative connections
Unit 3 - Exploring possibilities

| Term/ <br> week | ex |
| :--- | :--- |
| Term 2 |  |
| Week 4 |  |

experiments and simulation

Term 2
Students plan and conduct digital tools, to run simulations and cols using data. They, to run simulations and collect investigation report. Students demonstrate al four proficiencies when:

- assigning probabilities using common fractions, decimal and percentages
- ordering common fractions, giving reasons
- adding and subtracting fractions with related denominators
- generating and recording the outcomes from many trials of a chance experiment
- comparing observed frequencies to the expected frequencies of the outcomes of chance experiments


## Technique: Project

Mode: Written and practical (conducting chance experiments)

## Conditions:

- completed over multiple lessons in week 5
- practical responses are observed by the teacher

Unit 4 - Taking action to plan a party

| Term/ <br> week | Assessment 6 - Project: Mathematical <br> modelling | Term/ <br> week |
| :--- | :--- | :--- |
| Term 3 | Part A <br> Week 5 | Description: Students use mathematical <br> modelling to create a proposal of the best | Week 7 7

Description: Students use mathematical
modelling to create a proposal of the best menu options that meets a specific budget for the graduation dinner. Students demonstrate all four proficiencies when

- using mathematical modelling to solve financial and other practical problems involving percentages and rational numbers
- formulating and solving the problem, involving finding a fraction, decimal or percentage of a quantity
- using estimation to find approximate solutions to problems involving rationa numbers and percentages
- justifying choices.


## Part B

Description: In this task students plan personalised travel itineraries and timetable or invited guests. They consider start and rovide their invited guests with a Sud provide their invited guests with a

Technique: Project
Mode: Written
Conditions:

- issued in week 5 and completed over
multiple lessons by end of week 7
- written responses up to 400 words

Assessment 3-Project: Statistical investigations

## Description:

Through a series of statistical investigations, students record responses to stimulus and questions in a learning journal, e.g. data representations and visualisations, written descriptions, to demonstrate their proficiencies when:

- comparing distributions of discrete and continuous numerical and ordinal categorical data sets
- critiquing arguments presented in the media based on statistics
- planning and conducting a statistical investigation connected to the Science earning area on how the growth and survival of plants is affected by changing the physical conditions.

Technique: Project
Mode: Written (using multimedia where
appropriate)
Conditions:

- issued in week 5 and completed ove multiple lessons by end of week 9
- written responses up to 400 words
$\begin{aligned} & \text { Term/ } \\ & \text { week }\end{aligned}$
Assessment 5- Project

Week

## Description: Students keep a digital

 investigation folio, e.g. photographs/diagrams, spatial representations with number sentences, logo design, in response to a series of spatial investigations. The digital folio shows samples of students' learning focusing on their understanding and fluency when- identifying the parallel cross-section for right prisms from hands-on investigations involving slicing models at different angles
- using angle properties to create spatial
representations and find unknown angles
- creating tessellating patterns in logo designs using combinations of transformations


## echnique: Project

Mode: Written (using digital tools e.g. dynamic geometric software and photographs with
annotaiions)

- issued in week 6 and completed over multiple lessons by end of week 10


## Term/ week <br> erm 3 Wee

 10Unit 1 - Discovering rules and patterns
By the end of Year 6, students use integers to represent points on a number line and in the Cartesian plane. The solve problems using the properties of prime, composite and square numbers. Students order common fractions, gelated reasons, and add and subtract fractions with decimals and connect decimal representations of measurements to the metric system. Students solve problems involving finding a fraction, decimal or percentage of a quantity and use estimation to find approximate solutions to problems involving rational numbers and percentages. They use mathematical modelling to solve financial and other practical problems involving percentages and rational numbers, formulating and solving the problem, and justifying choices. student combinations of arithmetic operations. They identify and explain rules used to create growing patterns. Students create and use algorithms to generate sets of numbers, using a rule.

They interpret and use timetables. Students convert between common units of length, mass and capacity
They use the formula for the area angle properties to solve problems. Students identify th parallel cross-section for right prisms. They create
 transformations. Students locate an ordered pair in any one of the 4 quadrants on the Cartesian plane.

They compare distributions of discrete and continuous numerical and ordinal categorical data sets as part of their statistical investigations, using digital tools. Students critique arguments presented in the media based on statistics. They assign probabilities using common simulations using digital tools, to generate and record the outcomes from many trials of a chance experiment. They compare observed frequencies to the expected frequencies of the outcomes of chance experiments.
Consensus: Refer to QCAA moderation advice on the QCAA website under the Assessment tab in the learning
area. area.

Unit 2 - Creative connections
Unit 3 - Exploring possibilities
Unit 4 - Taking action to plan a party

By the end of Year 6, students use integers to represent points on a number line and in the Cartesian plane. They solve problems using the properties of prime, composite and square numbers. Students order common fractions, giving reasons, and add and subtract fractions with decimals and measurements to the metric system. Students solve problems involving finding a fraction, decimal or percentage of a quantity and use estimation to find approximate solutions to problems involving rational numbers and percentages. They use mathematical modelling to solve financial and other practical problems involving percentages and rational numbers, formulating and solving the problem, and justifying choices. Students find unknown values in numerical equations involving explain rules used to create growing patterns. Students create and use algorithms to generate sets of numbers, using a rule.

They interpret and use timetables. Students convert between common units of length, mass and capacity. They use the formula for the area of a rectangle and angle properties to solve problems. Students identify the parallel cross-section for right prisms. They create essellating patterns using combinations of transformations. Students locate an ordered pair in any one of the 4 quadrants on the Cartesian plane.

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| Content descriptions | Units |  |  |  | Content descriptions | Units |  |  |  | Content descriptions | Units |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number | 1 | 2 | 3 | 4 | Algebra | 1 | 2 | 3 | 4 | Measurement | 1 | 2 | 3 | 4 |
| recognise situations, including financial contexts, that use integers; locate and represent integers on a number line and as coordinates on the Cartesian plane AC9M6N01 | $\square$ | V | $\square$ | $\square$ | recognise and use rules that generate visually growing patterns and number patterns involving rational numbers <br> AC9M6A01 | $\square$ | $\square$ | $\square$ | $\square$ | convert between common metric units of length, mass and capacity; choose and use decimal representations of metric measurements relevant to the context of a problem AC9M6M01 | $\square$ | V | $\square$ | $\square$ |
| identify and describe the properties of prime, composite and square numbers and use these properties to solve problems and simplify calculations <br> AC9M6N02 | V | $\square$ | $\square$ | $\square$ | find unknown values in numerical equations involving brackets and combinations of arithmetic operations, using the properties of numbers and operations <br> AC9M6A02 | $\square$ | $\square$ | $\square$ | $\square$ | establish the formula for the area of a rectangle and use it to solve practical problems AC9M6M02 | $\square$ | $\square$ | $\square$ | $\square$ |
| apply knowledge of equivalence to compare, order and represent common fractions including halves, thirds and quarters on the same number line and justify their order AC9M6N03 | $\square$ | $\square$ | V | $\square$ | create and use algorithms involving a sequence of steps and decisions that use rules to generate sets of numbers; identify, interpret and explain emerging patterns <br> AC9M6A03 | $\square$ | $\square$ | $\square$ | $\square$ | interpret and use timetables and itineraries to plan activities and determine the duration of events and journeys AC9M6M03 | $\square$ | $\square$ | $\square$ | $\nabla$ |
| apply knowledge of place value to add and subtract decimals, using digital tools where appropriate; use estimation and rounding to check the reasonableness of answers AC9M6N04 | $\square$ | V | $\square$ | V |  |  |  |  |  | identify the relationships between angles on a straight line, angles at a point and vertically opposite angles; use these to determine unknown angles, communicating reasoning AC9M6M04 | $\square$ | $\square$ | V | $\square$ |
| solve problems involving addition and subtraction of fractions using knowledge of equivalent fractions AC9M6N05 | $\square$ | $\square$ | V | $\square$ |  |  |  |  |  |  |  |  |  |  |
| multiply and divide decimals by multiples of powers of 10 without a calculator, applying knowledge of place value and proficiency with multiplication facts; using estimation and rounding to check the reasonableness of answers AC9M6N06 | $\square$ | V | $\square$ | $\square$ |  |  |  |  |  |  |  |  |  |  |
| solve problems that require finding a familiar fraction, decimal or percentage of a quantity, including percentage discounts, choosing efficient calculation strategies and using digital tools where appropriate AC9M6N07 | $\square$ | $\square$ | $\square$ | $\square$ |  |  |  |  |  |  |  |  |  |  |
| approximate numerical solutions to problems involving rational numbers and percentages, including financial contexts, using appropriate estimation strategies <br> AC9M6N08 | $\square$ | $\square$ | $\square$ | $\square$ |  |  |  |  |  |  |  |  |  |  |
| use mathematical modelling to solve practical problems involving natural and rational numbers and percentages, including in financial contexts; formulate the problems, choosing operations and efficient calculation strategies, and using digital tools where appropriate; interpret and communicate solutions in terms of the situation, justifying the choices made AC9M6N09 | $\square$ | $\square$ | $\square$ | V |  |  |  |  |  |  |  |  |  |  |


| Content descriptions | Units |  |  |  | Content descriptions <br> Statistics | Units |  |  |  | Content descriptions <br> Probability | Units |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Space | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |  | 1 | 2 | 3 | 4 |
| compare the parallel cross-sections of objects and recognise their relationships to right prisms AC9M6SP01 | $\square$ | $\square$ | V | $\square$ | interpret and compare data sets for ordinal and nominal categorical, discrete and continuous numerical variables using comparative displays or visualisations and digital tools; compare distributions in terms of mode, range and shape AC9M6ST01 | $\square$ | V | $\square$ | $\square$ | recognise that probabilities lie on numerical scales of $0-1$ or $0 \%-100 \%$ and use estimation to assign probabilities that events occur in a given context, using common fractions, percentages and decimals AC9M6P01 | $\square$ | $\square$ | V | $\square$ |
| locate points in the 4 quadrants of a Cartesian plane; describe changes to the coordinates when a point is moved to a different position in the plane AC9M6SP02 | $\square$ | V | $\square$ | $\square$ | identify statistically informed arguments presented in traditional and digital media; discuss and critique methods, data representations and conclusions AC9M6ST02 | $\square$ | V | $\square$ | $\square$ | conduct repeated chance experiments and run simulations with an increasing number of trials using digital tools; compare observations with expected results and discuss the effect on variation of increasing the number of trials AC9M6P02 | $\square$ | $\square$ | V | $\square$ |
| recognise and use combinations of transformations to create tessellations and other geometric patterns, using dynamic geometric software where appropriate AC9M6SP03 | $\square$ | $\square$ | $\nabla$ | $\square$ | plan and conduct statistical investigations by posing and refining questions or identifying a problem and collecting relevant data; analyse and interpret the data and communicate findings within the context of the investigation <br> AC9M6ST03 | $\square$ | V | $\square$ | $\square$ |  |  |  |  |  |


| General capabilities | Units |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ |
| Critical and creative thinking | $\square$ | $\square$ | $\square$ | $\square$ |
| Digital literacy | $\square$ | $\square$ | $\square$ | $\square$ |
| Ethical understanding | $\square$ | $\square$ | $\square$ | $\square$ |
| Intercultural understanding | $\square$ | $\square$ | $\square$ | $\square$ |
| Literacy | $\square$ | $\square$ | $\square$ | $\square$ |
| Numeracy | $\square$ | $\square$ | $\square$ | $\square$ |
| Personal and social capability | $\square$ | $\square$ | $\square$ | $\square$ |


| Cross-curriculum priorities | Units |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ |
| Aboriginal and Torres Strait Islander histories and cultures | $\square$ | $\square$ | $\square$ | $\square$ |
| Asia and Australia's engagement with Asia | $\square$ | $\square$ | $\square$ | $\square$ |
| Sustainability | $\square$ | $\square$ | $\square$ | $\square$ |

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