Maths Trek

Scope & Sequence
Foundation to Year 6
Australian Curriculum Edition
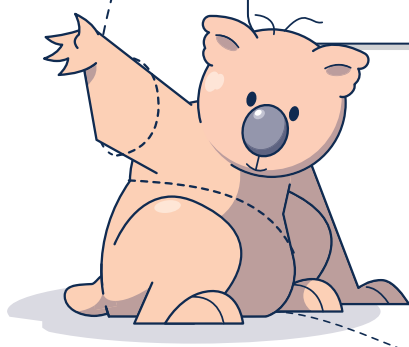
Matched to the Australian Curriculum v9

06/24

Contents

The Maths Trek Program

Maths Trek is a whole-school numeracy program for Foundation to Year 6 that develops mathematical understanding, fluency, reasoning and problem-solving skills.

The Student Book together with the explicit teaching resources at Maths Trek Online build, develop and strengthen each student's ability to work mathematically.

Use the comprehensive online teaching resources to explicitly teach each concept before students apply their learning in the Student Book.

Matched to the Australian Curriculum V9

In the Student Book* you will find ...

- shared *Work together* activities
- modelled examples
- independent activities to develop and master maths skills
- concepts revisited throughout the year
- scaffolded problems to learn key problem-solving strategies
- practice problems to build confidence in applying the strategies
- real-world investigations where students apply maths skills to unfamiliar, extended mathematical problems to strengthen connections between concepts
- regular revision to consolidate learning

At Maths Trek Online* you will find ...

- explicit teaching slides and lesson guides for every topic and problem-solving lesson
- engaging visuals and hands-on activities in lessons
- differentiation tasks
- interactive teaching tools
- place value videos
- investigation videos
- digital and printable resources to guide students through every investigation
- critical thinking lessons
- formative and summative assessments

Maths Trek Online includes the teaching resources for all year levels and complimentary access to the student site.

* Features differ in Foundation.
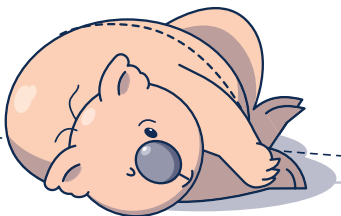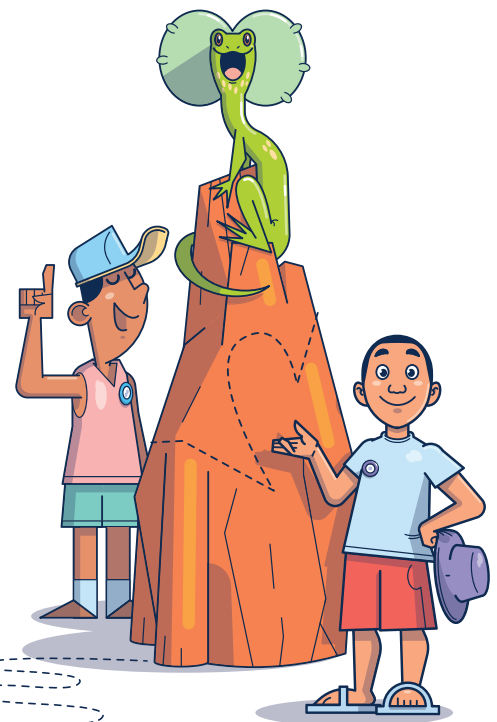
How To Use Maths Trek In Your Classroom

Maths Trek is a whole-school numeracy program that provides everything you and your students need to explore maths in real-world contexts.

To maximise the benefits of the program, use the Student Book with the explicit teaching resources at Maths Trek Online to build, develop and strengthen each student's ability to work mathematically.

An adventure in maths for every student from Foundation to Year 6!

Maths Trek Online

Maths Trek Online* is home to lesson guides, teaching slides, interactive teaching tools, videos, printable differentiation tasks and termly assessments.

Teachers will also find investigation notes, Student Book answers, and preparation and planning documents at Maths Trek Online.
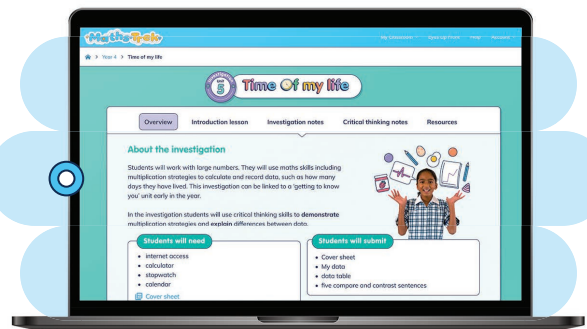
Maths Trek Student Book

The Student Book* is packed with modelled examples, as well as teacher-guided and independent activities for every topic and problem-solving strategy.

Students will also find plenty of practice problems, revision activities, application questions and investigation pages in the Student Book.

Features differ in Foundation to reflect the learning needs of students.

Using the Student Book with Online

Topics

Use the online lesson guides and teaching slides to explicitly teach each topic.

Discuss any modelled examples and complete the *Work together* activities with your students. Then students move on to the *Your turn* activities for independent practice.

The Student Book is an integral part of the consolidation process. Once you have explicitly taught each concept, it is essential that students apply what they have learned to the activities.

Revision

Use the revision activities throughout the Student Book to consolidate each student's learning and identify strengths and weaknesses.

Problem-solving

Use the videos, teaching slides and modelled examples in the Student Book to teach each strategy.

Students consolidate their skills throughout the year by independently completing practice problems. These build confidence in choosing appropriate strategies to solve a variety of unfamiliar problems.

Download the *Problem-Solving Progress Checklist* to record each student's progress throughout the year.

Investigations

Investigations provide students with opportunities to apply maths concepts learned in previous weeks to unfamiliar, extended mathematical problems.

Use the online teaching notes, exemplars, videos and printable resources to introduce and guide students through each step of the investigation.

Use the online critical thinking lessons to ensure students can reflect, reason and communicate their understanding of what they have discovered.

Download and use the formative assessment checklist to record each student's progress.

Assessment

Download the summative assessments at Maths Trek Online to assess each student's understanding of the preceding topics. Each assessment includes graded questions and a marking guide.
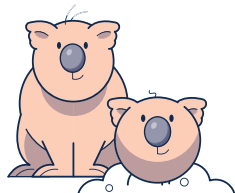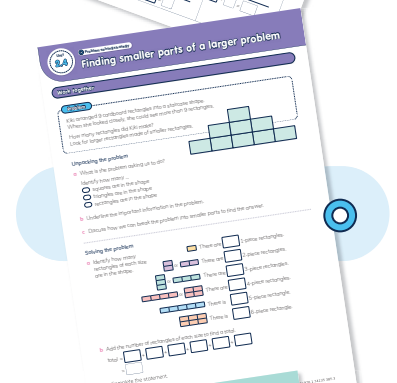
Term 1

Week 1

Unit 1
- **1.1** One
- **1.2** Two
- **1.3** Short and tall
- **1.4** Long/short, wide/narrow, thick/thin

Week 2

Unit 2
- **2.1** Three
- **2.2** Count to three
- **2.3** Short and long
- **2.4** Revision: Units 1–2

Week 3

Unit 3
- **3.1** In front of, behind, between, next to
- **3.2** Four
- **3.3** Five
- **3.4** Equal groups

Week 4

Unit 4
- **4.1** Count and match one-to-one
- **4.2** Make five
- **4.3** Six
- **4.4** Seven

Week 5

Unit 5
- **5.1** Ordinal numbers to 5th
- **5.2** Sort data
- **5.3** High and low, near and far
- **5.4** Revision: Units 3–5

Week 6

Unit 6 Investigation: Oz-animal Olympics

Week 7

Unit 7
- **7.1** Eight
- **7.2** Nine
- **7.3** Ten
- **7.4** Day and night

Week 8

Unit 8
- **8.1** Zero
- **8.2** Compare collections to 10
- **8.3** Represent numbers to 10
- **8.4** Days of the week: The Hungry Caterpillar

Week 9

Unit 9
- **9.1** Dot patterns
- **9.2** Days of the week
- **9.3** Position
- **9.4** Revision: Units 7–9

Term 2

Week 1

Unit 10
- **10.1** Count to 10
- **10.2** Lines and shapes
- **10.3** Partition 6 and 7
- **10.4** Circles

Week 2

Unit 11
- **11.1** Use ten frames to represent numbers to 10
- **11.2** Triangles
- **11.3** Squares
- **11.4** Revision: Units 10–11

Week 3

Unit 12
- **12.1** One more than
- **12.2** Yesterday, today, tomorrow
- **12.3** Partition 8 and 9
- **12.4** Rectangles

Week 4

Unit 13
- **13.1** One less than
- **13.2** Count backwards from 10
- **13.3** Partition 10
- **13.4** Sort shapes

Week 5

Unit 14
- **14.1** Numbers before, after, in between
- **14.2** Name and sort shapes
- **14.3** Collect data
- **14.4** Revision: Units 12–14
- Semester Test 1

Week 6

Unit 15 Investigation: Hopscotch

Week 7

Unit 16
- **16.1** Combine two groups
- **16.2** Numbers 11 to 15
- **16.3** Count collections
- **16.4** Compare length

Week 8

Unit 17
- **17.1** Combine two groups
- **17.2** Numbers 16 to 20
- **17.3** Count collections
- **17.4** Longer than, shorter than

Week 9

Unit 18
- **18.1** Duration of events
- **18.2** Events in my day
- **18.3** Compare length
- **18.4** Revision: Units 16–18

Australian Curriculum Year 1 | Yearly Plan

Term 1

Week 1

Unit 1 | **1.1** Maths is everywhere
| **1.2** Counting in ones
| **1.3** Reading and writing numbers to 20

Week 2

Unit 2 | **2.1** Counting in ones to 100
| **2.2** Identifying Australian coins and notes
| **2.3** Skip counting by twos to 20
| **2.4** PS strategy: Drawing a picture or diagram

Week 3

Unit 3 | **3.1** Days, weeks, months, years
| **3.2** Representing two-digit numbers to 30
| **3.3** Reading and writing two-digit numbers
| **3.4** PS strategy: Making a table or chart

Week 4

Unit 4 | **4.1** Partitioning to 10
| **4.2** Comparing mass – heavier, lighter
| **4.3** Comparing length – shorter, longer, taller
| **4.4** PS strategy: Finding a pattern

Week 5

Unit 5 | **5.1** Addition to 10 – draw and write
| **5.2** Collecting data using tally marks
| **5.3** Measuring length using informal units
| **5.4** Revision: Units 1–5
| **5.5** Assessment

Week 6

Unit 6 Investigation: Ramp champ

Week 7

Unit 7 | **7.1** Addition number sentences
| **7.2** Skip counting by fives
| **7.3** Which shape is that?
| **7.4** Problem-solving practice

Week 8

Unit 8 | **8.1** Addition using number lines
| **8.2** Skip counting by tens
| **8.3** Classifying shapes
| **8.4** Revision: Units 7–8

Term 2

Week 1

Unit 9 | **9.1** Ordering numbers to 100
| **9.2** Counting collections to 100
| **9.3** Counting on 1 or 2
| **9.4** PS strategy: Acting out the problem

Week 2

Unit 10 | **10.1** Counting groups of 10
| **10.2** Friends of 10
| **10.3** Calendars and months
| **10.4** PS strategy: Guessing and checking

Week 3

Unit 11 | **11.1** Representing two-digit numbers
| **11.2** Turnarounds
| **11.3** Describing position
| **11.4** PS strategy: Finding the useful information

Week 4

Unit 12 | **12.1** Addition using think boards
| **12.2** Doubles and near doubles
| **12.3** Following directions
| **12.4** Revision: Units 9–12

Week 5

Unit 13 Investigation: Numbers up

Week 6

Unit 14 | **14.1** Partitioning to 20
| **14.2** Skip counting by twos to 100
| **14.3** Object graphs
| **14.4** Assessment

Week 7

Unit 15 | **15.1** Subtraction
| **15.2** Repeating patterns
| **15.3** How long does it take?
| **15.4** Problem-solving practice

Week 8

Unit 16 | **16.1** Subtraction number sentences
| **16.2** Subtraction using think boards
| **16.3** Growing patterns
| **16.4** Revision: Units 14–16

Week 1 · Week 2 · Week 3 · Week 4 · Week 5 · Week 6 · Week 7 · Week 8

Australian Curriculum Year 2 | Yearly Plan

Term 1

Week 1

Unit 1
- **1.1** Maths is everywhere
- **1.2** Tens and ones with blocks
- **1.3** Read, write and represent numbers to 150

Week 2

Unit 2
- **2.1** Number patterns beyond 100
- **2.2** Addition using ten frames
- **2.3** Grouping to count collections
- **2.4** PS strategy: Drawing a picture or diagram

Week 3

Unit 3
- **3.1** Months of the year
- **3.2** Place value to hundreds
- **3.3** Picture graphs
- **3.4** PS strategy: Making an organised list

Week 4

Unit 4
- **4.1** Partitioning to 20
- **4.2** Addition facts
- **4.3** Collecting data using tally marks
- **4.4** PS strategy: Finding a pattern

Week 5

Unit 5
- **5.1** Number lines to 500
- **5.2** Addition using friendly jumps
- **5.3** Calendars
- **5.4** Revision: Units 1–5
- **5.5** Assessment

Week 6

Unit 6 Investigation: All about birthdays

Week 7

Unit 7
- **7.1** Ordering numbers to 500
- **7.2** Addition using friendly pairs
- **7.3** Parallel lines
- **7.4** Problem-solving practice

Week 8

Unit 8
- **8.1** Subtraction facts
- **8.2** Subtraction using friendly jumps
- **8.3** Classifying shapes
- **8.4** Revision: Units 7–8

Term 2

Week 1

Unit 9
- **9.1** Read, write and represent numbers to 500
- **9.2** Extending addition facts
- **9.3** Identifying position
- **9.4** PS strategy: Finding the useful information

Week 2

Unit 10
- **10.1** Ordering numbers to 1000
- **10.2** Addition using split strategy
- **10.3** Subtraction using split strategy
- **10.4** PS strategy: Guessing and checking

Week 3

Unit 11
- **11.1** Place value to hundreds
- **11.2** Addition with modelling
- **11.3** Features of shapes
- **11.4** PS strategy: Acting out the problem

Week 4

Unit 12
- **12.1** The role of a zero
- **12.2** Measuring length
- **12.3** Recognise and draw shapes
- **12.4** Revision: Units 9–12

Week 5

Unit 13 Investigation: Marble ramp

Week 6

Unit 14
- **14.1** Number expanders
- **14.2** Expanded notation
- **14.3** Extending subtraction facts
- **14.4** Assessment

Week 7

Unit 15
- **15.1** Subtraction with modelling
- **15.2** Maps, pathways, directions
- **15.3** Comparing mass
- **15.4** Problem-solving practice

Week 8

Unit 16
- **16.1** Addition and subtraction facts are related
- **16.2** Column graphs
- **16.3** Measuring mass
- **16.4** Revision: Units 14–16

Term 1

Week 1

Unit 1
- **1.1** Maths is everywhere
- **1.2** Fact families for addition and subtraction
- **1.3** Regrouping numbers

Week 2

Unit 2
- **2.1** Addition with partitioning
- **2.2** Subtraction with partitioning
- **2.3** Place value to thousands
- **2.4** PS strategy: Finding smaller parts of a larger problem

Week 3

Unit 3
- **3.1** Expanded notation
- **3.2** Counting on and back by 1, 10, 100
- **3.3** Comparing numbers to 10 000
- **3.4** PS strategy: Making an organised list

Week 4

Unit 4
- **4.1** Ordering numbers to 10 000
- **4.2** Multiplication by 10
- **4.3** Number sentences and word problems
- **4.4** Revision: Units 1–4

Week 5

Unit 5 Investigation: What's in a thousand words?

Week 6

Unit 6
- **6.1** Collecting and organising data
- **6.2** Predicting possible outcomes
- **6.3** Predicting possible outcomes with spinners
- **6.4** PS strategy: Making a table or chart
- **6.5** Assessment

Week 7

Unit 7
- **7.1** Time past the hour
- **7.2** Column graphs
- **7.3** Interpreting graphs
- **7.4** PS strategy: Guessing and checking

Week 8

Unit 8
- **8.1** Measuring with metres
- **8.2** Measuring with centimetres
- **8.3** Measuring with metres and centimetres
- **8.4** Revision: Units 6–8

Week 9

Unit 9 Investigation: How do I measure up?

Term 2

Week 1

Unit 10
- **10.1** Picture graphs
- **10.2** Place value to ten thousands
- **10.3** Addition with modelling
- **10.4** PS strategy: Solving a simpler problem

Week 2

Unit 11
- **11.1** Subtraction with modelling
- **11.2** Comparing tables and graphs
- **11.3** Equivalent number sentences
- **11.4** PS strategy: Finding a pattern or using a rule

Week 3

Unit 12
- **12.1** Measuring with kilograms
- **12.2** Measuring with grams
- **12.3** Measuring with kilograms and grams
- **12.4** Revision: Units 10–12

Week 4

Unit 13 Investigation: Kilogram quest

Week 5

Unit 14
- **14.1** Addition
- **14.2** Subtraction
- **14.3** Modelling to solve problems
- **14.4** Assessment

Week 6

Unit 15
- **15.1** Time to the hour
- **15.2** Measuring with litres
- **15.3** Measuring with millilitres
- **15.4** PS strategy: Working backwards

Week 7

Unit 16
- **16.1** Number patterns
- **16.2** Multiples 2, 3, 4, 5, 10
- **16.3** Multiples and repeated addition
- **16.4** PS strategy: Drawing a picture or diagram

Week 8

Unit 17
- **17.1** Multiplication facts 3, 4
- **17.2** Multiplication facts 5, 10
- **17.3** Multiplication
- **17.4** Revision: Units 14–17

Week 9

Unit 18 Investigation: Picture perfect patterns

Term 1

Week 1

Unit 1
- **1.1** Maths is everywhere
- **1.2** Place value to hundred thousands
- **1.3** Addition

Week 2

Unit 2
- **2.1** Subtraction
- **2.2** Odd and even numbers
- **2.3** Properties of odd and even numbers
- **2.4** PS strategy: Finding smaller parts of a larger problem

Week 3

Unit 3
- **3.1** Place value and expanded notation
- **3.2** Multiplication facts 2, 3, 5, 10
- **3.3** Multiplication facts 4, 6, 8, 9
- **3.4** PS strategy: Making an organised list

Week 4

Unit 4
- **4.1** Multiples using algorithms
- **4.2** Collecting and organising data
- **4.3** Multiplication using the area model
- **4.4** Revision: Units 1–4

Week 5

Unit 5 Investigation: Time of my life

Week 6

Unit 6
- **6.1** Modelling to solve problems
- **6.2** Calculating with money
- **6.3** Budgets
- **6.4** PS strategy: Drawing a picture or diagram
- **6.5** Assessment

Week 7

Unit 7
- **7.1** Reading graduated scales
- **7.2** Measuring with litres and millilitres
- **7.3** Converting litres and millilitres
- **7.4** PS strategy: Working backwards

Week 8

Unit 8
- **8.1** Measuring with kilograms and grams
- **8.2** Rounding to ten thousands
- **8.3** Multiplication using the area model
- **8.4** Revision: Units 6–8

Week 9

Unit 9 Investigation: Plenty of pikelets

Term 2

Week 1

Unit 10
- **10.1** Factors
- **10.2** Line symmetry
- **10.3** Symmetrical patterns
- **10.4** PS strategy: Making a table or chart

Week 2

Unit 11
- **11.1** Place value to tenths
- **11.2** Tenths on a number line
- **11.3** Measuring perimeter
- **11.4** PS strategy: Acting out the problem

Week 3

Unit 12
- **12.1** Calculating perimeter
- **12.2** Area
- **12.3** Area of irregular shapes
- **12.4** Revision: Units 10–12

Week 4

Unit 13 Investigation: It's only natural

Week 5

Unit 14
- **14.1** Describing possible outcomes
- **14.2** Dependent and independent events
- **14.3** Combining objects
- **14.4** Assessment

Week 6

Unit 15
- **15.1** Equivalent number sentences
- **15.2** Addition
- **15.3** Subtraction
- **15.4** PS strategy: Guessing and checking

Week 7

Unit 16
- **16.1** Picture graphs
- **16.2** Multiplying and dividing by 10, 100, 1000
- **16.3** Rounding using a target digit strategy
- **16.4** PS strategy: Solving a simpler problem

Week 8

Unit 17
- **17.1** Estimation strategies
- **17.2** Grid references
- **17.3** Maps, pathways and directions
- **17.4** Revision: Units 14–17

Week 9

Unit 18 Investigation: Heritage hunt

Term 3

Unit 19 19.1 Addition
19.2 Subtraction
19.3 Column graphs
19.4 PS strategy: Finding a pattern or using a rule

Unit 20 20.1 Picture graphs
20.2 Comparing graphs
20.3 Fractions on a number line
20.4 Problem-solving practice

Unit 21 21.1 Equivalent fractions
21.2 Angles
21.3 Tessellation
21.4 Revision: Units 19–21

Unit 22 Investigation: Ripper rides

Unit 23 23.1 Turnarounds and friendly pairs
23.2 Algorithms
23.3 Fractions as division
23.4 Assessment

Unit 24 24.1 Predicting possible outcomes
24.2 Place value to hundredths
24.3 Hundredths on a number line
24.4 Problem-solving practice

Unit 25 25.1 Division facts 2, 3, 5, 10
25.2 Division facts 4, 6, 8, 9
25.3 Division
25.4 Problem-solving practice

Unit 26 26.1 Place value and expanded notation
26.2 Multiplication
26.3 Inverse operations
26.4 Revision: Units 23–26

Unit 27 Investigation: Super sports stadium

Term 4

Unit 28 28.1 Addition and subtraction
28.2 Division
28.3 Mixed numerals
28.4 Problem-solving practice

Unit 29 29.1 Mixed numerals and improper fractions
29.2 Measuring with millimetres
29.3 Millimetres, centimetres and metres
29.4 Problem-solving practice

Unit 30 30.1 Quadrilaterals
30.2 Combining shapes
30.3 Converting units of time
30.4 Revision: Units 28–30

Unit 31 Investigation: Double trouble

Unit 32 32.1 Time (am and pm)
32.2 Reading and interpreting timetables
32.3 Time to the nearest minute
32.4 Assessment

Unit 33 Investigation: Movie marathon

Unit 34 Maths puzzles and games

Extra investigations

Investigation: Lengthy leaps

Investigation: Fraction fun

Investigation: Puzzling perimeters

Investigation: Angle art

Week 1
Week 2
Week 3
Week 4
Week 5
Week 6
Week 7
Week 8
Week 9

Australian Curriculum Year 5 | Yearly Plan

Term 1

Week 1

Unit 1 1.1 Maths is everywhere
1.2 Place value to millions
1.3 Fact families for multiplication and division

Week 2

Unit 2 2.1 Addition
2.2 Subtraction
2.3 Rounding to ten thousands
2.4 PS strategy: Guessing and checking

Week 3

Unit 3 3.1 Estimation strategies
3.2 24-hour time
3.3 Reading timetables
3.4 PS strategy: Acting out the problem

Week 4

Unit 4 4.1 Australian time zones
4.2 Directional language
4.3 Coordinates and directions
4.4 Revision: Units 1–4

Week 5

Unit 5 Investigation: Race around Australia

Week 6

Unit 6 6.1 Line graphs
6.2 Categorical and numerical data
6.3 Multiplication using the area model
6.4 PS strategy: Making a table or chart
6.5 Assessment

Week 7

Unit 7 7.1 Multiplication using split and multiply
7.2 Place value to thousandths
7.3 Percentages
7.4 PS strategy: Drawing a picture or diagram

Week 8

Unit 8 8.1 Measuring mass
8.2 Dot plots
8.3 Column graphs
8.4 Revision: Units 6–8

Week 9

Unit 9 Investigation: Breakfast club

Term 2

Week 1

Unit 10 10.1 Place value beyond millions
10.2 Multiplication – 3 digits × 1 digit
10.3 Calculating perimeter
10.4 PS strategy: Making an organised list

Week 2

Unit 11 11.1 Area
11.2 Perimeter of rectangles
11.3 Area of rectangles
11.4 PS strategy: Solving a simpler problem

Week 3

Unit 12 12.1 Rotational symmetry
12.2 Directions, turns, degrees
12.3 Translation, reflection, rotation
12.4 Revision: Units 10–12

Week 4

Unit 13 Investigation: Radical renovation

Week 5

Unit 14 14.1 Measuring with kilometres
14.2 Addition
14.3 Turnarounds and friendly pairs
14.4 Assessment

Week 6

Unit 15 15.1 Subtraction with zeros
15.2 Inverse operations
15.3 Division
15.4 PS strategy: Finding a pattern or using a rule

Week 7

Unit 16 16.1 Multiples
16.2 Multiples using algorithms
16.3 Division
16.4 PS strategy: Working backwards

Week 8

Unit 17 17.1 Factors
17.2 Equivalent number sentences
17.3 Division with remainders
17.4 Revision: Units 14–17

Week 9

Unit 18 Investigation: Factor frenzy

Term 3

Unit 19
- **19.1** Coordinates to locate position
- **19.2** Budgets
- **19.3** Comparing and ordering fractions
- **19.4** PS strategy: Finding smaller parts of a larger problem

Unit 20
- **20.1** Adding and subtracting fractions
- **20.2** Equivalent fractions
- **20.3** Adding and subtracting fractions
- **20.4** Problem-solving practice

Unit 21
- **21.1** Mixed numerals and improper fractions
- **21.2** Comparing decimals
- **21.3** Percentages
- **21.4** Revision: Units 19–21

Unit 22 Investigation: Dynamic dominoes

Unit 23
- **23.1** Classifying angles
- **23.2** Measuring angles 0° to 180°
- **23.3** Divisibility rules
- **23.4** Assessment

Unit 24
- **24.1** Division with remainders
- **24.2** Multiplication – 4 digits × 1 digit
- **24.3** Multiplication by tens and hundreds
- **24.4** Problem-solving practice

Unit 25
- **25.1** Multiplication using the area model
- **25.2** Multiplication – 3 digits × 2 digits
- **25.3** Choosing units of measurement
- **25.4** Problem-solving practice

Unit 26
- **26.1** Measuring with litres and millilitres
- **26.2** Ordinal data
- **26.3** The mode
- **26.4** Revision: Units 23–26

Unit 27 Investigation: Down the drain

Term 4

Unit 28
- **28.1** Place value and expanded notation
- **28.2** Rounding using a target digit strategy
- **28.3** Estimation strategies
- **28.4** Problem-solving practice

Unit 29
- **29.1** Division with remainders as fractions
- **29.2** Division with remainders to tenths
- **29.3** Division with remainders to hundredths
- **29.4** Problem-solving practice

Unit 30
- **30.1** Measures of probability
- **30.2** Comparing probability
- **30.3** Fair and unfair outcomes
- **30.4** Revision: Units 28–30

Unit 31 Investigation: Score a duck

Unit 32
- **32.1** Budgets
- **32.2** Nets of objects
- **32.3** Measuring angles 0° to 360°
- **32.4** Assessment

Unit 33 Investigation: Baffling blocks

Unit 34 Maths puzzles and games

Extra investigations

Investigation: Twinkle twinkle

Investigation: If I were a Martian

Investigation: Never a cross word

Investigation: Finals fever

Week 1
Week 2
Week 3
Week 4
Week 5
Week 6
Week 7
Week 8
Week 9

Australian Curriculum Year 6 | Yearly Plan

Term 1

Week 1

Unit 1
- **1.1** Maths is everywhere
- **1.2** Positive and negative numbers
- **1.3** Comparing and ordering fractions

Week 2

Unit 2
- **2.1** Fractions as division
- **2.2** Square numbers
- **2.3** Prime and composite numbers
- **2.4** PS strategy: Working backwards

Week 3

Unit 3
- **3.1** Factor trees
- **3.2** Multiplication
- **3.3** Division
- **3.4** PS strategy: Drawing a picture or diagram

Week 4

Unit 4
- **4.1** Investigating patterns
- **4.2** Patterns in a table of values
- **4.3** Inverse operations to check calculations
- **4.4** Revision: Units 1–4

Week 5

Unit 5 Investigation: Lilja's locked level

Week 6

Unit 6
- **6.1** Properties of angles
- **6.2** Renaming fractions as percentages
- **6.3** Multi-step problems – add and subtract
- **6.4** PS strategy: Making a table or chart
- **6.5** Assessment

Week 7

Unit 7
- **7.1** Estimation strategies
- **7.2** Metric system of measurement
- **7.3** Perimeter of rectangles
- **7.4** PS strategy: Finding a pattern or using a rule

Week 8

Unit 8
- **8.1** Area of rectangles
- **8.2** Area of composite rectangles
- **8.3** Area and perimeter
- **8.4** Revision: Units 6–8

Week 9

Unit 9 Investigation: Happy hippos

Term 2

Week 1

Unit 10
- **10.1** Reading timetables
- **10.2** Categorical and numerical data
- **10.3** Ordinal and nominal data
- **10.4** PS strategy: Making an organised list

Week 2

Unit 11
- **11.1** Side-by-side column graphs
- **11.2** Line graphs
- **11.3** Stacked line graphs
- **11.4** PS strategy: Guessing and checking

Week 3

Unit 12
- **12.1** Bar charts
- **12.2** Mode and range
- **12.3** Comparing graphs
- **12.4** Revision: Units 10–12

Week 4

Unit 13 Investigation: Unique you

Week 5

Unit 14
- **14.1** Function machines
- **14.2** Order of operations
- **14.3** Balancing equations
- **14.4** Assessment

Week 6

Unit 15
- **15.1** Equivalent fractions
- **15.2** Adding and subtracting fractions
- **15.3** Rounding decimals
- **15.4** PS strategy: Solving a simpler problem

Week 7

Unit 16
- **16.1** Decimal addition to tenths
- **16.2** Decimal subtraction to tenths
- **16.3** Decimal addition to hundredths
- **16.4** PS strategy: Finding smaller parts of a larger problem

Week 8

Unit 17
- **17.1** Decimal subtraction to hundredths
- **17.2** Misleading data and graphs
- **17.3** Causes of bias
- **17.4** Revision: Units 14–17

Week 9

Unit 18 Investigation: Record breaker

Term 3

Unit 19 **19.1** Coordinates in one quadrant
19.2 Decimal multiplication
19.3 Decimal division
19.4 PS strategy: Acting out the problem

Unit 20 **20.1** Renaming fractions as percentages
20.2 Discount
20.3 Multi-step problems
20.4 Problem-solving practice

Unit 21 **21.1** Budgets
21.2 Reading and interpreting timetables
21.3 Calculating duration
21.4 Revision: Units 19–21

Unit 22 Investigation: Fantasy flight

Unit 23 **23.1** Cross-sections
23.2 Measuring with tonnes and kilograms
23.3 Inverse operations to solve problems
23.4 Assessment

Unit 24 **24.1** Adding and subtracting fractions
24.2 Properties of shapes
24.3 Tessellations
24.4 Problem-solving practice

Unit 25 **25.1** Decimal addition to thousandths
25.2 Decimal subtraction to thousandths
25.3 Multiply decimals by 10, 100, 1000
25.4 Problem-solving practice

Unit 26 **26.1** Decimal multiplication
26.2 Decimal division
26.3 Decimal multiplication and division
26.4 Revision: Units 23–26

Unit 27 Investigation: Is petrol pricey?

Term 4

Unit 28 **28.1** Decimals with the four operations
28.2 Patterns and rules
28.3 Percentages
28.4 Problem-solving practice

Unit 29 **29.1** Comparing probability
29.2 Expected probability
29.3 Observed probability
29.4 Problem-solving practice

Unit 30 **30.1** Repeated probability experiments
30.2 Discrete and continuous data
30.3 Transformations
30.4 Revision: Units 28–30

Unit 31 Investigation: Practice makes perfect

Unit 32 **32.1** Positive and negative numbers
32.2 Coordinates in four quadrants
32.3 Transformations with coordinates
32.4 Assessment

Unit 33 Investigation: Curious coordinates

Unit 34 Maths puzzles and games

Extra investigations

Investigation: Clever containers

Investigation: Educational entrepreneur

Investigation: Octi-origami

Investigation: Weird or wonderful weather

Week 1
Week 2
Week 3
Week 4
Week 5
Week 6
Week 7
Week 8
Week 9

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