Maths-Trek

Scope & Sequence

Foundation to Year 6

Aligned with the v9 Australian Curriculum

08/23

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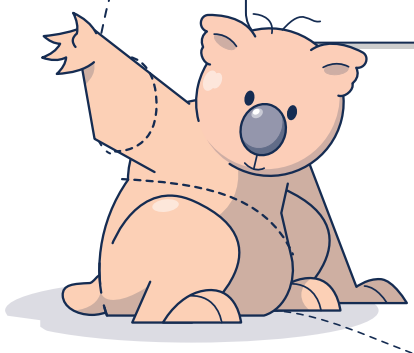

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The Maths Trek Program

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.

Aligned with the v9 Australian Curriculum

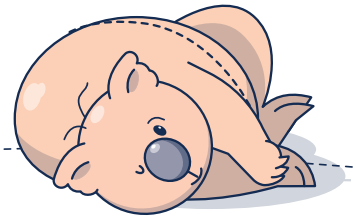
In the Student Book* you will find ...

- 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
- differentiation tasks
- interactive teaching tools
- problem-solving strategy videos
- investigation videos
- digital and printable resources to guide students through every investigation
- critical thinking lessons in investigations
- termly assessments
- access to teaching resources for all year levels

** Features differ in Foundation.*



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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.

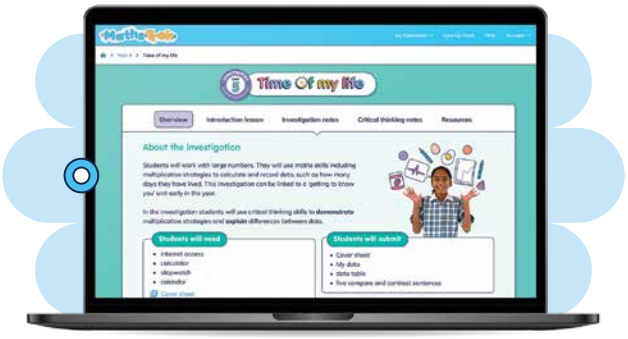
To maximise the benefits of the program, use the Student Book with the explicit teaching resources at Maths Trek Online to build, develop and strengthen each student's ability to work mathematically.

Maths Trek is 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.

You 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.*

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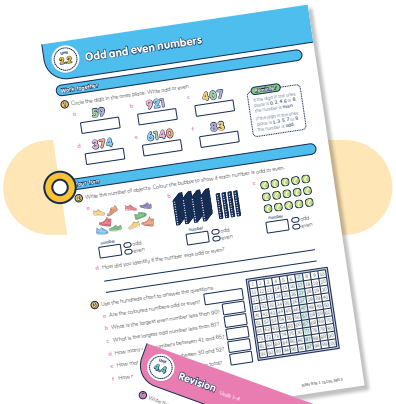
Using the Student Book with Online

Topics

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

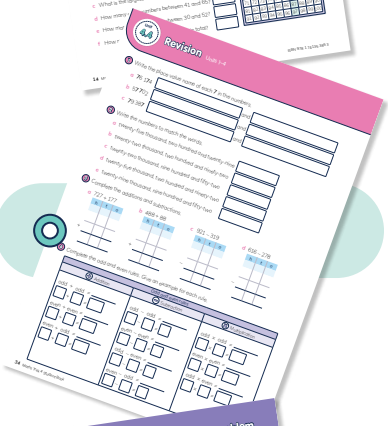
Discuss any modelled examples and complete the *Work together* activities with your students. Then students move on to the *Your turn* activities for independent practice.

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

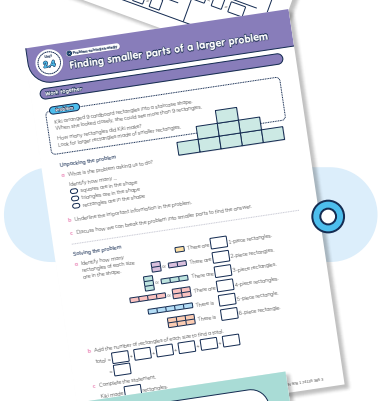
Use the revision activities throughout the Student Book to consolidate each student's learning and identify strengths and weaknesses.



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.



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 four termly assessments at Maths Trek Online to assess each student's understanding of the preceding topics. Each assessment includes graded C to A level questions.

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Foundation Yearly Plan

	Term 1	Term 2
Week 1	**Unit 1** 1.1 One 1.2 Two 1.3 Short and tall 1.4 Long/short, wide/narrow, thick/thin	**Unit 10** 10.1 Count to 10 10.2 Lines and shapes 10.3 Partition 6 and 7 10.4 Circles
Week 2	**Unit 2** 2.1 Three 2.2 Count to three 2.3 Short and long 2.4 Revision: Units 1–2	**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 3** 3.1 In front of, behind, between, next to 3.2 Four 3.3 Five 3.4 Equal groups	**Unit 12** 12.1 One more than 12.2 Yesterday, today, tomorrow 12.3 Partition 8 and 9 12.4 Rectangles
Week 4	**Unit 4** 4.1 Count and match one-to-one 4.2 Make five 4.3 Six 4.4 Seven	**Unit 13** 13.1 One less than 13.2 Count backwards from 10 13.3 Partition 10 13.4 Sort shapes
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	**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
Week 6	**Unit 6** Investigation: Oz-animal Olympics	**Unit 15** Investigation: Hopscotch
Week 7	**Unit 7** 7.1 Eight 7.2 Nine 7.3 Ten 7.4 Day and night	**Unit 16** 16.1 Combine two groups 16.2 Numbers 11 to 15 16.3 Count collections 16.4 Compare length
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	**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 9** 9.1 Dot patterns 9.2 Days of the week 9.3 Position 9.4 Revision: Units 7–9	**Unit 18** 18.1 Duration of events 18.2 Events in my day 18.3 Compare length 18.4 Revision: Units 16–18

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Term 3

Unit 19
19.1 Model addition
19.2 Represent numbers 11 to 15
19.3 Copy a pattern
19.4 Heavy and light

Unit 20
20.1 Addition: How many altogether?
20.2 Represent numbers 16 to 20
20.3 Compare mass by hefting
20.4 Revision: Units 19–20

Unit 21
21.1 Use beads to show addition
21.2 Make 10
21.3 Identify the next item in a pattern
21.4 Heavier, lighter, the same as

Unit 22
22.1 Addition stories
22.2 Compare collections to 20
22.3 Describe and continue patterns
22.4 Use ten frames to show addition

Unit 23
23.1 Model subtraction
23.2 Subtraction stories
23.3 Continue and create patterns
23.4 Revision: Units 21–23

Unit 24 Investigation: Zoo escape

Unit 25
25.1 Find the difference
25.2 Order numbers to 20
25.3 Identify missing elements in patterns
25.4 Full and empty

Unit 26
26.1 Collect data
26.2 Missing numbers to 20
26.3 Position
26.4 Holds more, holds less

Unit 27
27.1 Draw pictures to show subtraction
27.2 Data displays
27.3 Compare capacity
27.4 Revision: Units 25–27

Term 4

Unit 28
28.1 Count on 1 and 2
28.2 Count forwards and backwards
28.3 Ordinal numbers to 10th
28.4 Before and after

Unit 29
29.1 Take away
29.2 Count to 30
29.3 Add more to make 10
29.4 Revision: Units 28–29

Unit 30
30.1 Share equally
30.2 Use ten frames to represent numbers to 20
30.3 Take-away stories
30.4 Sequence events

Unit 31
31.1 Share equally
31.2 Missing numbers to 30
31.3 Collect data
31.4 Revision: Units 30–31

Unit 32 Investigation: Hungry billy goats

Unit 33
33.1 Add more to find the missing addend
33.2 Order numbers to 30
33.3 Money
33.4 Find the missing group

Unit 34
34.1 Make equal groups
34.2 Use tally marks to show data
34.3 Shopping
34.4 Compare two groups to find the difference

Unit 35
35.1 Addition and subtraction
35.2 Sort objects
35.3 Interpret data displays
35.4 Revision: Units 33–35

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

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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

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Term 3

Unit 17	17.1	Representing tens and ones
	17.2	Counting back 1 or 2
	17.3	One more, one less, ten more, ten less
	17.4	PS strategy: Making an organised list
Unit 18	18.1	Writing tens and ones
	18.2	Subtraction – find the difference
	18.3	Addition using ten frames and number lines
	18.4	PS strategy: Solving a simpler problem
Unit 19	19.1	Count and order numbers to 150
	19.2	Think addition to subtract
	19.3	Informal units to measure length
	19.4	PS strategy: Working backwards
Unit 20	20.1	Addition and subtraction are related
	20.2	Using ordinal and positional language
	20.3	Describing number patterns
	20.4	Revision: Units 17–20
Unit 21		Investigation: Let's roll
Unit 22	22.1	Addition facts
	22.2	Keeping the pattern going
	22.3	Collecting data
	22.4	Assessment
Unit 23	23.1	Partitioning tens and ones
	23.2	Subtraction facts
	23.3	Counting collections to 150
	23.4	Problem-solving practice
Unit 24	24.1	Writing number patterns and rules
	24.2	Building objects with blocks
	24.3	Picture graphs
	24.4	Revision: Units 22–24

Term 4

Unit 25	25.1	Equal groups
	25.2	Partitioning tens and ones
	25.3	Addition – split and add
	25.4	PS strategy: Finding smaller parts of a larger problem
Unit 26	26.1	Following and writing directions
	26.2	Equal groups
	26.3	Sharing equally
	26.4	Problem-solving practice
Unit 27	27.1	Working with coins and notes
	27.2	How many groups?
	27.3	Sharing and grouping
	27.4	Problem-solving practice
Unit 28	28.1	Triangles and quadrilaterals
	28.2	Addition and subtraction money problems
	28.3	Months and seasons
	28.4	Revision: Units 25–28
Unit 29		Investigation: Breakfast cafe
Unit 30	30.1	Partitioning two-digit numbers
	30.2	Comparing heights
	30.3	Collecting data
	30.4	Assessment
Unit 31	31.1	Addition to two digits using 100s charts
	31.2	How much does it hold?
	31.3	Subtraction to two digits using 100s charts

Extra investigations

Investigation: Plenty of popsticks

Investigation: Win or lose

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

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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

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Term 3

Unit 17	17.1	Place value problems
	17.2	Addition using jump strategy
	17.3	Time – o'clock
	17.4	PS strategy: Making a table or chart
Unit 18	18.1	Expanded notation
	18.2	Do I have enough money?
	18.3	Time – o'clock, half past
	18.4	PS strategy: Solving a simpler problem
Unit 19	19.1	Subtraction using jump strategy
	19.2	Coins and notes
	19.3	Time – quarter past, half past
	19.4	PS strategy: Working backwards
Unit 20	20.1	Multiplication
	20.2	Number lines to 1000
	20.3	Problem-solving with money
	20.4	Revision: Units 17–20
Unit 21		Investigation: Showtime
Unit 22	22.1	Groups and arrays
	22.2	Regrouping and renaming numbers
	22.3	Time – quarter past, quarter to
	22.4	Assessment
Unit 23	23.1	Place value to thousands
	23.2	Multiplication facts for 2
	23.3	Measuring length
	23.4	Problem-solving practice
Unit 24	24.1	Numbers beyond 1000
	24.2	Measuring capacity
	24.3	Multiplication problem-solving
	24.4	Revision: Units 22–24

Term 4

Unit 25	25.1	Addition and subtraction problems
	25.2	Fractions
	25.3	Connecting and describing patterns
	25.4	PS strategy: Finding smaller parts of a larger problem
Unit 26	26.1	Division – How many in each group?
	26.2	Fractions as part of a whole
	26.3	Doubling and halving numbers
	26.4	Problem-solving practice
Unit 27	27.1	Fractions as part of a group
	27.2	Division – How many groups?
	27.3	Number patterns
	27.4	Problem-solving practice
Unit 28	28.1	Repeating and growing patterns
	28.2	Odd and even number patterns
	28.3	Multiplication and division facts are related
	28.4	Revision: Units 25–28
Unit 29		Investigation: Paper chain patterns
Unit 30	30.1	Regrouping and renaming numbers
	30.2	Multiplication and division problems
	30.3	Representing halves, quarters, eighths
	30.4	Assessment
Unit 31	31.1	Interpreting graphs
	31.2	Reading calendars
	31.3	Turns

Extra investigations

Investigation: Paint it

Investigation: Up, up and away

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

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Year 3 Yearly Plan

	Term 1	Term 2
Week 1	**Unit 1** 1.1 Maths is everywhere 1.2 Fact families for addition and subtraction 1.3 Regrouping numbers	**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 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	**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 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	**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 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	**Unit 13** Investigation: Kilogram quest
Week 5	**Unit 5** Investigation: What's in a thousand words?	**Unit 14** 14.1 Addition 14.2 Subtraction 14.3 Modelling to solve problems 14.4 Assessment
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	**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 7** 7.1 Time past the hour 7.2 Column graphs 7.3 Interpreting graphs 7.4 PS strategy: Guessing and checking	**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 8** 8.1 Measuring with metres 8.2 Measuring with centimetres 8.3 Measuring with metres and centimetres 8.4 Revision: Units 6–8	**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 9** Investigation: How do I measure up?	**Unit 18** Investigation: Picture perfect patterns

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Term 3

Unit 19
- 19.1 Place value beyond ten thousands
- 19.2 Addition to three digits
- 19.3 Time to and past the hour
- 19.4 PS strategy: Acting out the problem

Unit 20
- 20.1 Rounding to tens and hundreds
- 20.2 Subtraction to three digits
- 20.3 Multiplication problem-solving
- 20.4 Problem-solving practice

Unit 21
- 21.1 Equivalent values of money
- 21.2 Dollars and cents
- 21.3 Inverse operations
- 21.4 Revision: Units 19–21

Unit 22 Investigation: Big spender

Unit 23
- 23.1 Estimation strategies
- 23.2 Input and output
- 23.3 Time to the nearest minute
- 23.4 Assessment

Unit 24
- 24.1 Division facts 3, 4
- 24.2 Division facts 5, 10
- 24.3 Division problem-solving
- 24.4 Problem-solving practice

Unit 25
- 25.1 Division
- 25.2 Angles
- 25.3 Connecting cubes
- 25.4 Problem-solving practice

Unit 26
- 26.1 Face, edge, vertex
- 26.2 Pyramids and prisms
- 26.3 Cylinders, cones, spheres
- 26.4 Revision: Units 23–26

Unit 27 Investigation: Cube conundrum

Term 4

Unit 28
- 28.1 Japanese numeral system
- 28.2 Addition and subtraction
- 28.3 Column graphs
- 28.4 Problem-solving practice

Unit 29
- 29.1 Seconds, minutes, hours, days
- 29.2 Duration of time
- 29.3 Fractions as part of a whole
- 29.4 Problem-solving practice

Unit 30
- 30.1 Fractions as part of a group
- 30.2 Fractions on a number line
- 30.3 Fractions as division
- 30.4 Revision: Units 28–30

Unit 31 Investigation: Fraction action

Unit 32
- 32.1 Comparing and ordering numbers to 10 000
- 32.2 Right angles
- 32.3 Maps and plans
- 32.4 Assessment

Unit 33 Investigation: Kakadu crossing

Unit 34 Maths puzzles and games

Extra investigations

Investigation: It's on the cards

Investigation: Trash or treasure

Investigation: Top team

Investigation: Sprouting surprises

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

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Year 4 Yearly Plan

	Term 1	Term 2
Week 1	**Unit 1** 1.1 Maths is everywhere 1.2 Place value to hundred thousands 1.3 Addition	**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 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	**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 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	**Unit 12** 12.1 Calculating perimeter 12.2 Area 12.3 Area of irregular shapes 12.4 Revision: Units 10–12
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	**Unit 13** Investigation: It's only natural
Week 5	**Unit 5** Investigation: Time of my life	**Unit 14** 14.1 Describing possible outcomes 14.2 Dependent and independent events 14.3 Combining objects 14.4 Assessment
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	**Unit 15** 15.1 Equivalent number sentences 15.2 Addition 15.3 Subtraction 15.4 PS strategy: Guessing and checking
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	**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 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	**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 9** Investigation: Plenty of pikelets	**Unit 18** Investigation: Heritage hunt

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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
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Year 5 Yearly Plan

	Term 1	Term 2
Week 1	**Unit 1** 1.1 Maths is everywhere 1.2 Place value to millions 1.3 Fact families for multiplication and division	**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 2** 2.1 Addition 2.2 Subtraction 2.3 Rounding to ten thousands 2.4 PS strategy: Guessing and checking	**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 3** 3.1 Estimation strategies 3.2 24-hour time 3.3 Reading timetables 3.4 PS strategy: Acting out the problem	**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 4** 4.1 Australian time zones 4.2 Directional language 4.3 Coordinates and directions 4.4 Revision: Units 1–4	**Unit 13** Investigation: Radical renovation
Week 5	**Unit 5** Investigation: Race around Australia	**Unit 14** 14.1 Measuring with kilometres 14.2 Addition 14.3 Turnarounds and friendly pairs 14.4 Assessment
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	**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 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	**Unit 16** 16.1 Multiples 16.2 Multiples using algorithms 16.3 Division 16.4 PS strategy: Working backwards
Week 8	**Unit 8** 8.1 Measuring mass 8.2 Dot plots 8.3 Column graphs 8.4 Revision: Units 6–8	**Unit 17** 17.1 Factors 17.2 Equivalent number sentences 17.3 Division with remainders 17.4 Revision: Units 14–17
Week 9	**Unit 9** Investigation: Breakfast club	**Unit 18** Investigation: Factor frenzy

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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

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Year 6 Yearly Plan

	Term 1	Term 2
Week 1	**Unit 1** 1.1 Maths is everywhere 1.2 Positive and negative numbers 1.3 Comparing and ordering fractions	**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 2** 2.1 Fractions as division 2.2 Square numbers 2.3 Prime and composite numbers 2.4 PS strategy: Working backwards	**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 3** 3.1 Factor trees 3.2 Multiplication 3.3 Division 3.4 PS strategy: Drawing a picture or diagram	**Unit 12** 12.1 Bar charts 12.2 Mode and range 12.3 Comparing graphs 12.4 Revision: Units 10–12
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	**Unit 13** Investigation: Unique you
Week 5	**Unit 5** Investigation: Lilja's locked level	**Unit 14** 14.1 Function machines 14.2 Order of operations 14.3 Balancing equations 14.4 Assessment
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	**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 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	**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 8** 8.1 Area of rectangles 8.2 Area of composite rectangles 8.3 Area and perimeter 8.4 Revision: Units 6–8	**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 9** Investigation: Happy hippos	**Unit 18** Investigation: Record breaker

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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

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