

REALISATION OF THE STATE OF THE

Help students build their skills, develop understanding and make connections over time

Australian Curriculum v9.0



Maths Plus at a glance – practise, master, assess

Curriculum alignment

The series is fully aligned with the Australian Curriculum: Mathematics v9.0 – Number, Algebra, Measurement, Space, Statistics and Probability.

Teaching and learning approach

Students explore and revisit mathematical concepts over time, building their skills, developing understanding and making connections. This is a spiralled learning approach, also known as 'spacing', which supports practice and consolidation.

What sort of activities are included?

- learning, practice and consolidation activities
- problem-solving tasks
- extra support and extension activities
- mentals and homework activities

Student resources

-
- Student Books
- Student Dashboards
- Assessment Books
- Mentals and Homework Books

Teacher resources

A teacher book is available, along with online resources and support material for F-6 via a Teacher Dashboard.

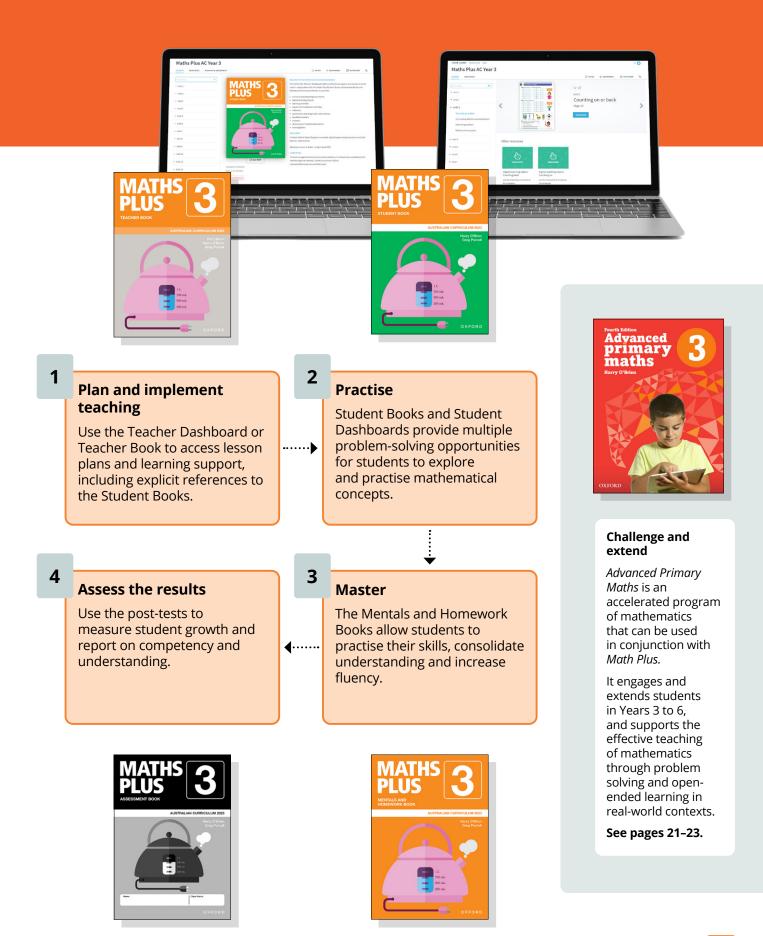
Teaching resources

- interactive teaching tools to introduce concepts
- blackline masters and investigations
- lesson plans and learning support
- potential difficulties video tutorials

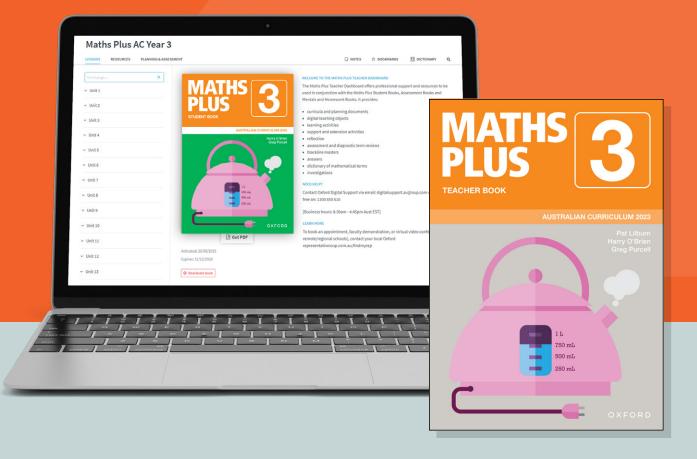
Planning and assessment material

- curricula and planning documents
- assessment tests and diagnostic term reviews
- dictionary of mathematical terms
- answers

What does Maths Plus look like in the classroom?



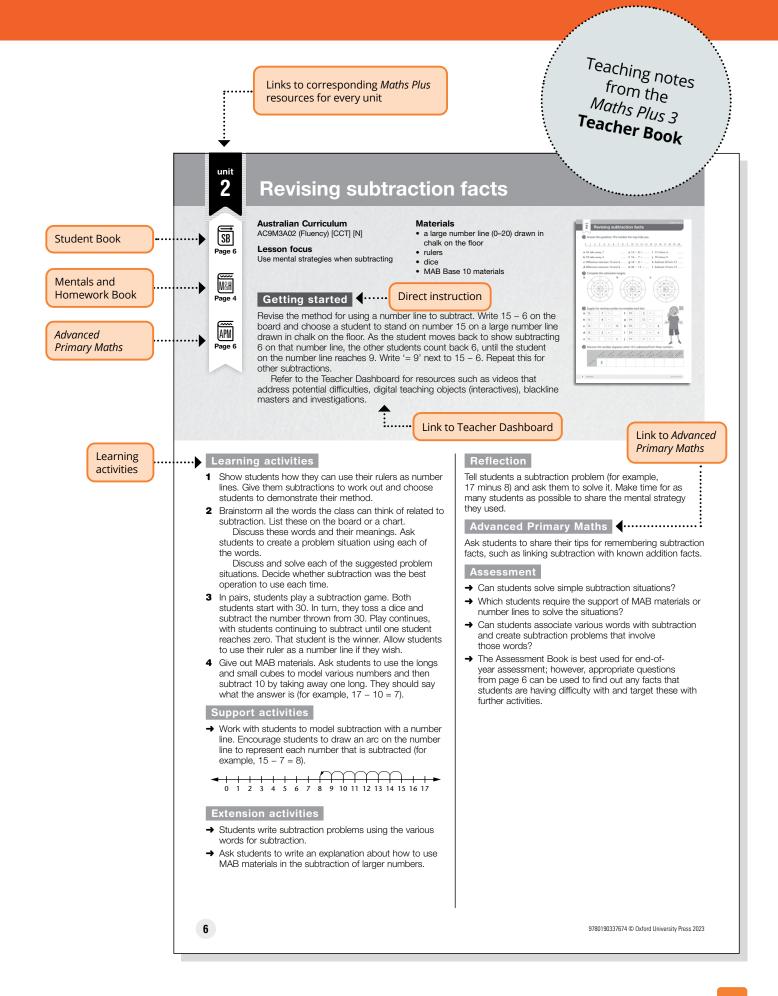
Teacher Book and Teacher Dashboard



Refer to the *Maths Plus* **Teacher Book** or **Teacher Dashboard** for curriculum links, direct instruction and links to the Student Books, Mentals and Homework Books and *Advanced Primary Maths*.

Use the *Maths Plus* **Teacher Dashboard** to access a wealth of additional teaching and learning resources such as interactive teaching tools, videos, blackline masters, investigations, answers and more!

Teacher Book



Teacher Book

Term planner from the *Maths Plus 3* Teacher Book

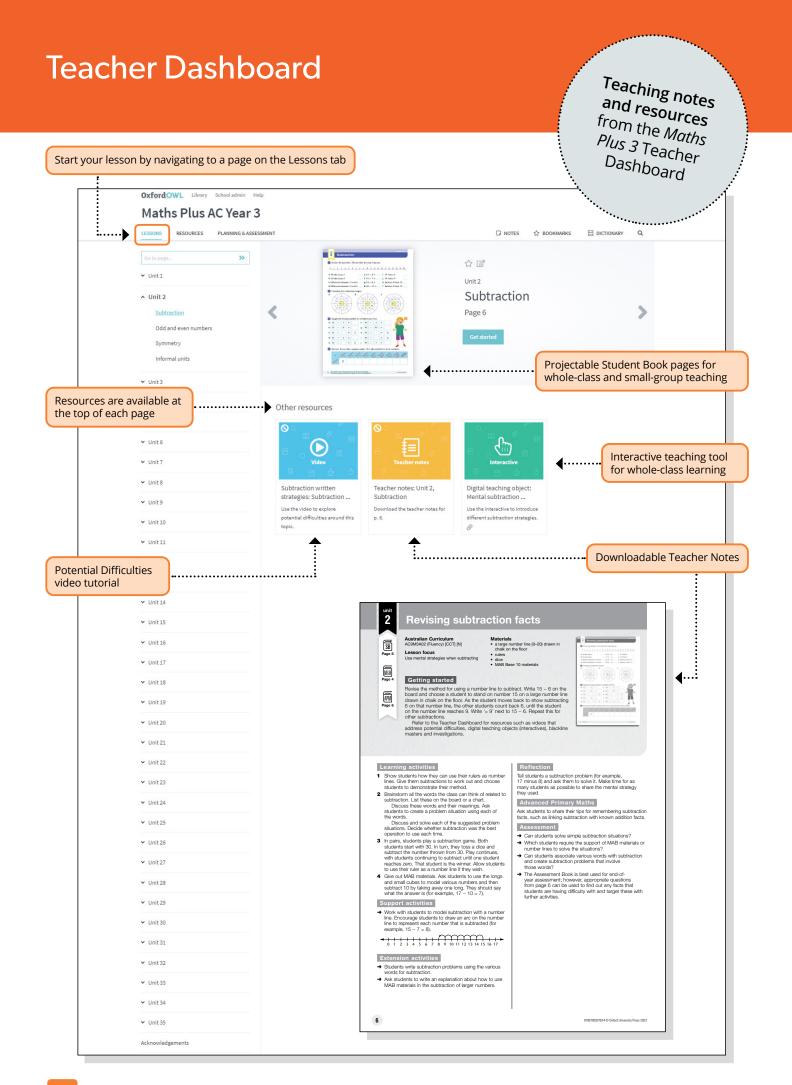
		Те	erm planners		Teacher E
		TERM 1	SUGGESTED PLANNER		•••••••••••••••••••••••••••••••••••••••
/EEK	UNIT	PAGES	Number & Algebra	Measurement & Space	Statistics & Probability
1	1	2–5	Addition facts to 9 + 9. Find a pattern in an addition grid. Add single-digit numbers with materials. Use arrays for skip counting patterns. Skip count to find a total. Skip count to complete patterns.	Identify prisms and cylinders. Match 3D objects with their names. Measure items using centimetres. Draw lines to exact centimetres.	
2	2	6–9	Subtraction facts to 20. Missing numbers in subtractions. Model odd and even numbers. Find patterns in odd and even numbers. Link between multiplication and repeated addition.	Interpret and construct column graphs.	
3	3	10–13	Make equal groups and use multiplication to describe them. Addition and subtraction as inverse operations.	Describe the position of objects. Follow directions to place items in a grid.	Use tally marks to record survey results. Interpret a column graph.
4	4	14–17	Subtraction facts from addition. Write and solve word problems and number sentences. Use mental strategies and arrays to multiply by 2.	Identify faces, edges and corners of pyramids. Describe a pyramid. Measure and estimate the length of leaves and objects in centimetres.	
5	5	18–21	Extend addition facts. Complete addition grids to find addition patterns. Model and write three-digit numbers. Order three-digit numbers.	Draw plans to represent position.	
6	6	22–25	Expand three-digit numbers. Use > or < to compare numbers. Use mental strategies to multiply by 5. Expand numbers to 5000.	Use a grid to locate and give positions.	Interpret column graphs. Construct a column graph.
7	7	26–29	Write and solve division number sentences. Use the 'jump' strategy to solve addition of two-digit numbers. Use mental strategies to multiply by 10.	Capacity using informal units. Choose appropriate measuring units.	
8	8	30–33	Extend subtraction facts. Introduce numerator and denominator. Identify and model unit fractions of shapes and collections. Use partitioning and models to solve two-digit additions.	Match sets of faces to 3D objects.	
9	9	34–37	Use the split strategy to add 2-digit numbers. Solve problems using the split strategy. Learn to trade in a 2-digit algorithm.	Identify quarter to and quarter past on a clock face. Add hands to illustrate various times.	Create and interpret graphs, including using computer software.
10		38-39		Diagnostic review 1	

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Teacher Book

Australian Curriculum cross-reference chart from the Maths Plus 3 Teacher Book

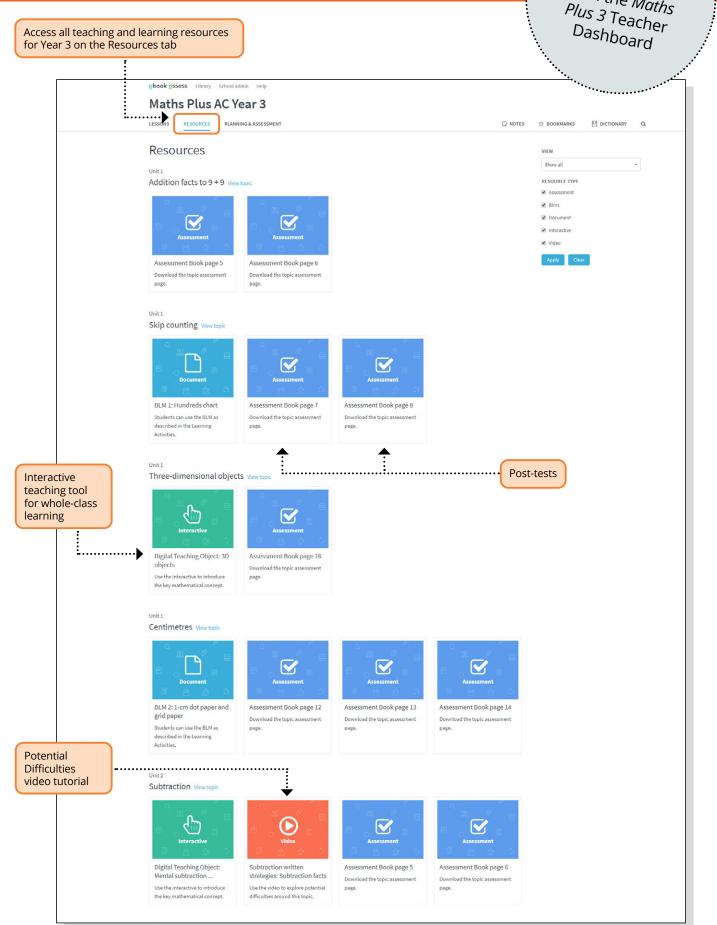
Units	1 2	3	4 5	6	7 8	0	10	11	12	13	14 15	16	17	18 1	0 21	1 21	22	23 3	4 2	5 26	27	28	20	30	31 3	2 33	34	35
				R AN					12	10	14 10				5 20	, 21		20 1	4 2	0 20	21							
ecognise, represent and order natural numbers using naming and writing onventions for numerals beyond 10000 (AC9M3N01)																												
Recognise and represent unit fractions including $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{5}$ and $\frac{1}{10}$ and their nultiples in different ways; combine fractions with the same denominator to omplete the whole (AC9M3N02)																												
Add and subtract two- and three-digit numbers using place value to partition, earrange and regroup numbers to assist in calculations without a calculator AC9M3N03)																												
Multiply and divide one- and two-digit numbers, representing problems using number sentences, diagrams and arrays, and using a variety of calculation trategies (AC9M3N04)																												
stimate the quantity of objects in collections and make estimates when solving problems to determine the reasonableness of calculations (AC9M3N05)																												
Jse mathematical modelling to solve practical problems involving additive and nultiplicative situations including financial contexts; formulate problems using number sentences and choose calculation strategies, using digital lools where ppropriate; interpret and communicate solutions in terms of the situation AC9M3N06)																												
ollow and create algorithms involving a sequence of steps and decisions to nvestigate numbers; describe any emerging patterns (AC9M3N07)																												
tecognise and explain the connection between addition and subtraction as nverse operations, apply to partition numbers and find unknown values in umber sentences (AC9M3A01)																												
xtend and apply knowledge of addition and subtraction facts to 20 to develop ficient mental strategies for computation with larger numbers without a akulator (ACSM3A02)																												
ecall and demonstrate proficiency with multiplication facts for 3, 4, 5 and 10; xtend and apply facts to develop the related division facts (AC9M3A03)																												
	м	EASL	JREN	IENT	AND	SP/	CE															ME/	su	REM	ENT	AND	SPAC	CE
dentify which metric units are used to measure everyday items; use measurements f familiar items and known units to make estimates (AC9M3M01)																												
All And All All All All All All All All All Al						1									1													
ecognise and use the relationship between formal units of time including days, ours, minutes and seconds to estimate and compare the duration of events AC9M3M03)							Π																					
Joscribe the relationship between the hours and minutes on analog and digital Jocks, and read the time to the nearest minute (AC9M3M04)																												
dentify angles as measures of turn and compare angles with right angles in everyday situations (AC9M3M05)						Γ													1									
ecognise the relationships between dollars and cents and represent money alues in different ways (AC9M3M06)						1																						
Make, compare and classify objects, identifying key features and explaining why these features make them suited to their uses (AC9M3SP01)																												
nterpret and create two-dimensional representations of familiar environments, pocating key landmarks and objects relative to each other (AC9M3SP02)																												
	STAT	ISTIC	CS A	ND P	ROBA	BIL	ITY														ST	ATIS	тіс	S AN	DP	ROBA	BILI	ΓY .
cquire data for categorical and discrete numerical variables to address a question of interest or purpose by observing, collecting and accessing data ets; record the data using appropriate methods including frequency tables and preadsheets (AC9M3ST01)																												
reate and compare different graphical representations of data sets including using oftware where appropriate; interpret the data in terms of the context (AC9M3ST02)																												
onduct guided statistical investigations involving the collection, presentation and interpretation of data for categorical and discrete numerical ariables with respect to questions of interest (AC9M3ST03)																												
dentify practical activities and everyday events involving chance; describe ossible outcomes and events as 'likely' or 'lulikely' and identify some events s 'certain' or 'impossible' explaining reasoning (AC9M3P01)																												
Conduct repeated chance experiments; identify and describe possible outcomes, ecord the results, recognise and discuss the variation (AC9M3P02)																												

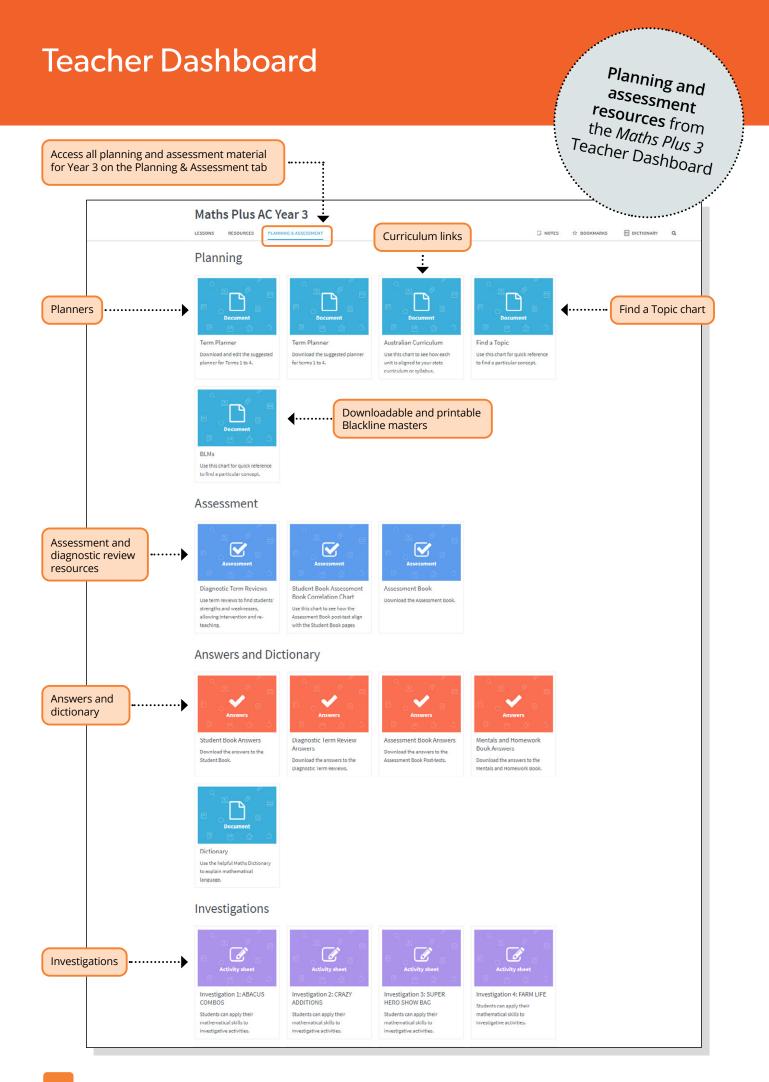


Teacher Dashboard

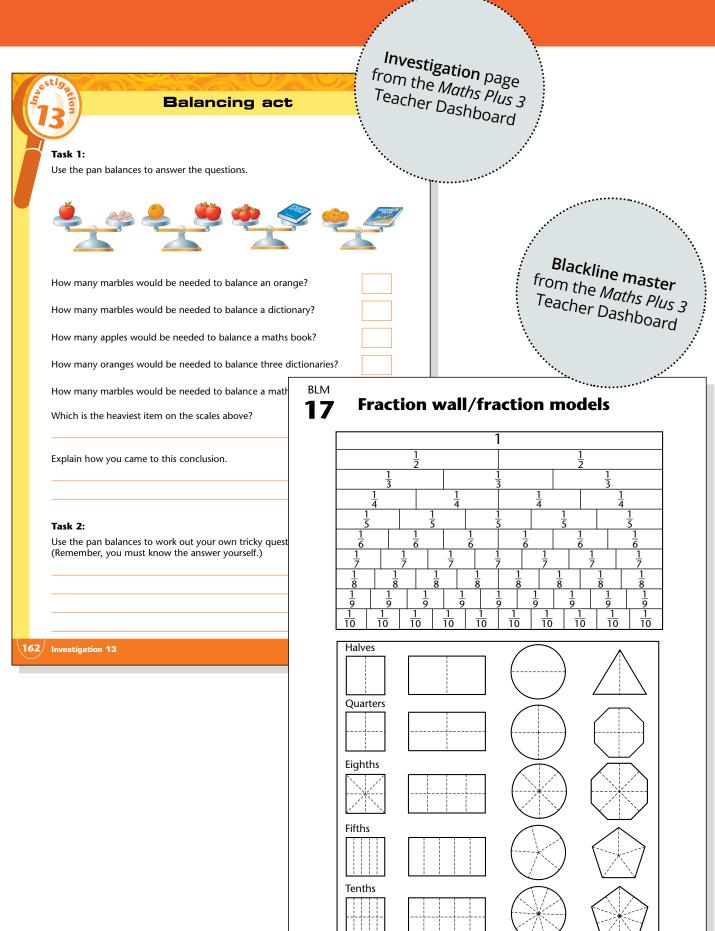
Access all teaching and learning resources

Teaching and learning resources from the Maths Plus 3 Teacher Dashboard





Teacher Dashboard



Teacher Dashboard

NUMBER AND ALGEBRA page	Find a topic Find a topic Find a topic	opic page Maths Plus 3 Dashboard
Number and place value 7 Dad and even numbers 7 Place value to 5000 20, 22, 24 Counting forwards and backwards 44 Place value to 10000 61, 78, 128 Rounding numbers 57, 87, 98, 137 Estimation 57, 137 Numbers beyond 10000 133 Patitioning numbers 27, 64, 116 Addition facts 2 Subtraction facts 6, 30 Addition and subtraction 8, 18, 19, 27, 30, 34, 48, 52, 57, 64, 68, 70, 74, 98, 117 Connecting addition and subtraction 11, 14, 40 Adding 2- and 3-digit numbers 32, 35, 83, 90, 107, 140 Subtracting 2- and 3-digit numbers 46, 52, 86, 41, 124 Problems 83, 125	Multiplication and division Strategies 3, 56, 72, 82, 91, 110, 111, 117 Facts 15, 23, 28, 56, 65, 69, 72, 79, 111, 117 Multiplication 8, 10, 15, 23, 49, 69, 70, 145 Division 26, 49, 56, 69, 82, 91, 136 Problems 15, 23, 26, 56, 69, 72, 79, 111, 117 Multiplication 8, 10, 15, 23, 49, 69, 70, 145 Division 26, 49, 56, 69, 82, 91, 136 Problems 15, 23, 56, 69, 136 Fractions and decimals 45 Halves, quarters and eighths 45, 53 Fifths and tenths 99 Unit fractions 31, 103, 121 Equivalent fractions 132 Money and financial mathematics 132 Representing values 60, 84, 87, 145 Australian notes and ooins 95 Patterns and algebra 13, 30 Audition/subtraction patterns 19, 30 Number patterns 19, 49, 129 Equivalent number sentences 144	Dictionary page from the <i>Maths Plus</i> Teacher Dashboard
MEASUREMENT AND SPACE Units of measurement Length Centimetres 5, 17, 71, 126, 134 The metre 43, 126 Decimal notation 147	Digital time 93 Duration am and pm notati Timetables Dictionary Shape	
Volume and capacity Informal units 29, 89 Litres 55, 126, 135 Millitres 105, 126, 135 Mass Grams Kilograms 67, 119 Grams 139 Metric units 143	Features of 8D ob Modelling objects Pyramids Triangles Location and t Symmetry Describing positio Interpreting maps Grid references Drawing a plan	ascending order An arrangement of numbers from smallest to largest. 256, 291, 307, 452 associative property A series of numbers can be added in any order without changing the result.
Quarter to/quarter past 37 Time in minutes 63, 109 Time units 101 STATISTICS AND PROBABILITY Chance Possible outcomes 51, 81, 104, 113, 123, 127	Geometric rea Angles acute angle Data represen Collecting data addition (+) The operation that finds the sum or total.	5 + 4 + 6 = 15 $4 + 6 + 5 = 15$ $6 + 5 + 4 = 15$ A series of numbers can be multiplied in any order without changing the result. $5 \times 4 \times 3 = 60$ $4 \times 3 \times 5 = 60$ $3 \times 5 \times 4 = 60$
Variation 51, 100, 134	Data displays am (ante meridiem) Column graphs The morning. Any time from midnight to noon, e.g. 7:30 am is 7:30 in the morning. Data variations analogue clock A clock face with numbers 1 to 12, and two hands Image: the second seco	 axis of symmetry An imaginary line that divides a shape exactly in half. If a shape is folded along this line, both sides will match. base The bottom line of a 2D shape. The bottom face of a 3D object.
	area The surface covered by any 2D shape. Area can be measured in cm ² , m ² , hectares and km ² . 3 cm $area = 6 \text{ cm}^2$ An arrangement of objects or	For example: • pyramids have one base For example: • prisms have two bases. base base base
	An arrangement of objects or symbols into rows and columns.	capacity The amount a container can hold. Capacity can be measured in millilitres (mL), litres (L) and kilolitres (kL).

Student Books and Student Dashboards



The *Maths Plus* **Student Books** and **Student Dashboards** offer opportunities for spiralled learning and practice, and for students to develop and consolidate skills in understanding, fluency, reasoning and problem solving.

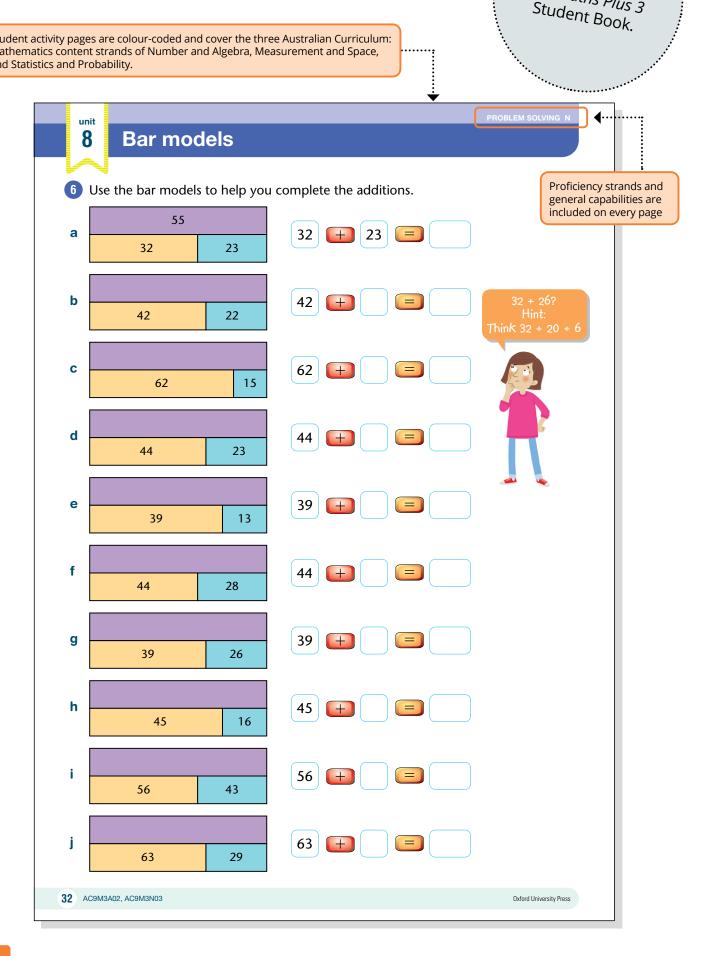
They include:

- ▶ four diagnostic term reviews (Years 1–6) to assess concepts and skills
- contextual support and examples
- dictionary (Years 2–6)
- ▶ answers (Years 1–6)

Student Book

Activity page from the Maths Plus 3 Student Book.

Student activity pages are colour-coded and cover the three Australian Curriculum: Mathematics content strands of Number and Algebra, Measurement and Space, and Statistics and Probability.



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Student Book

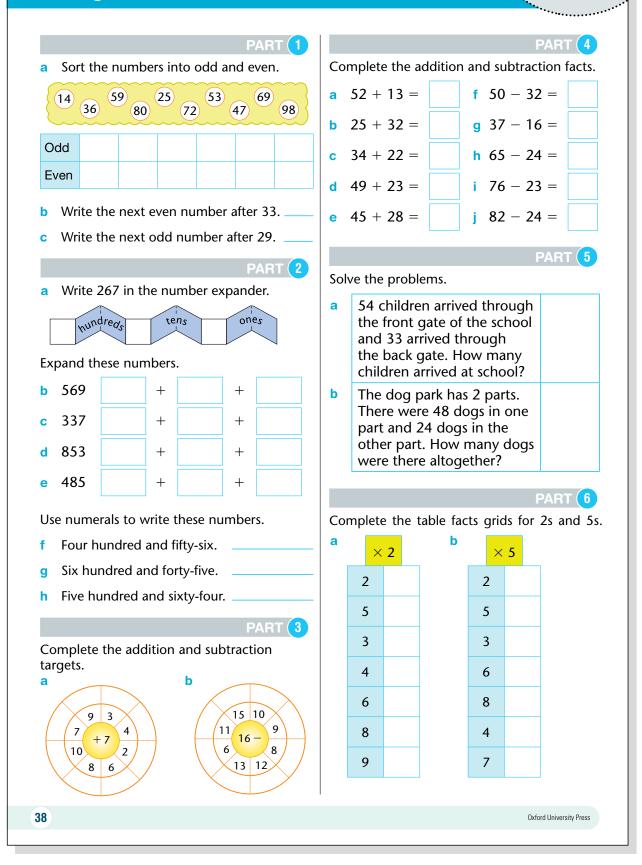
Activity page from the *Maths Plus 3* Student Book.

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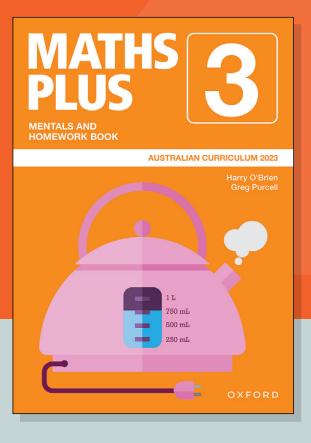
Student Book

Diagnostic term review from the Maths Plus 3 Student Book

Diagnostic review 1



Mentals and Homework Books



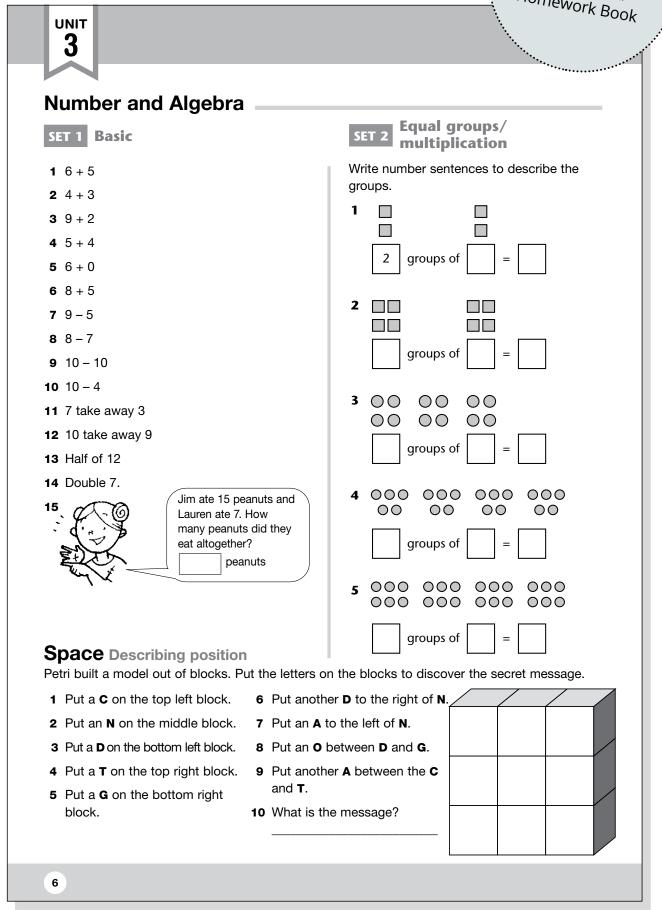
The *Maths Plus* **Mentals** and **Homework Books** (Years 1–6) provide opportunities to practise and develop skills and strategies.

The Mentals and Homework Books:

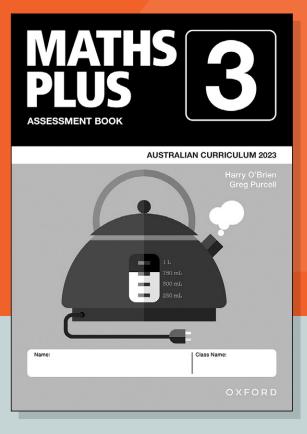
- provide essential revision and consolidation activities
- directly correspond to the concepts and units of work presented in the Student Books
- ▶ link all activities to the three Australian Curriculum: Mathematics strands.

Mentals and Homework Book

Activity page from the *Maths Plus 3* Mentals and Homework Book



Assessment Books



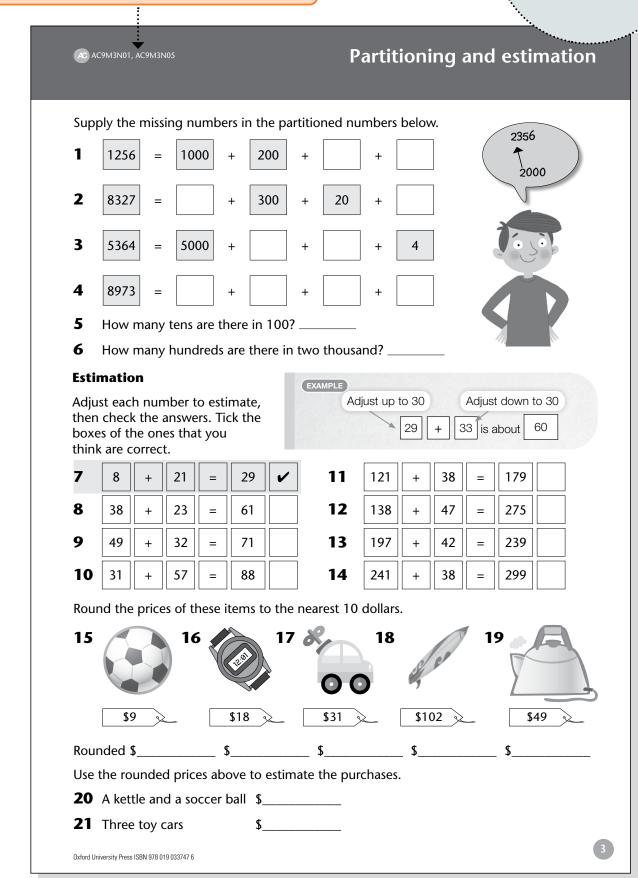
The *Maths Plus* **Assessment Books** provide teachers with an easily administered, yet comprehensive, post-assessment tool. They:

- ▶ provide opportunities for teachers to measure student growth
- include short post-tests for each topic
- ► are suitable for end-of-year reporting.

Assessment Book

Each Assessment Book page is a snapshot of work that addresses a specific content code from the Australian Curriculum.

Post-test from the *Maths Plus 3* Assessment Book



Advanced Primary Maths

Advanced Primary Maths is the only advanced mathematics program written specifically for Australian students in Years 3 to 6.

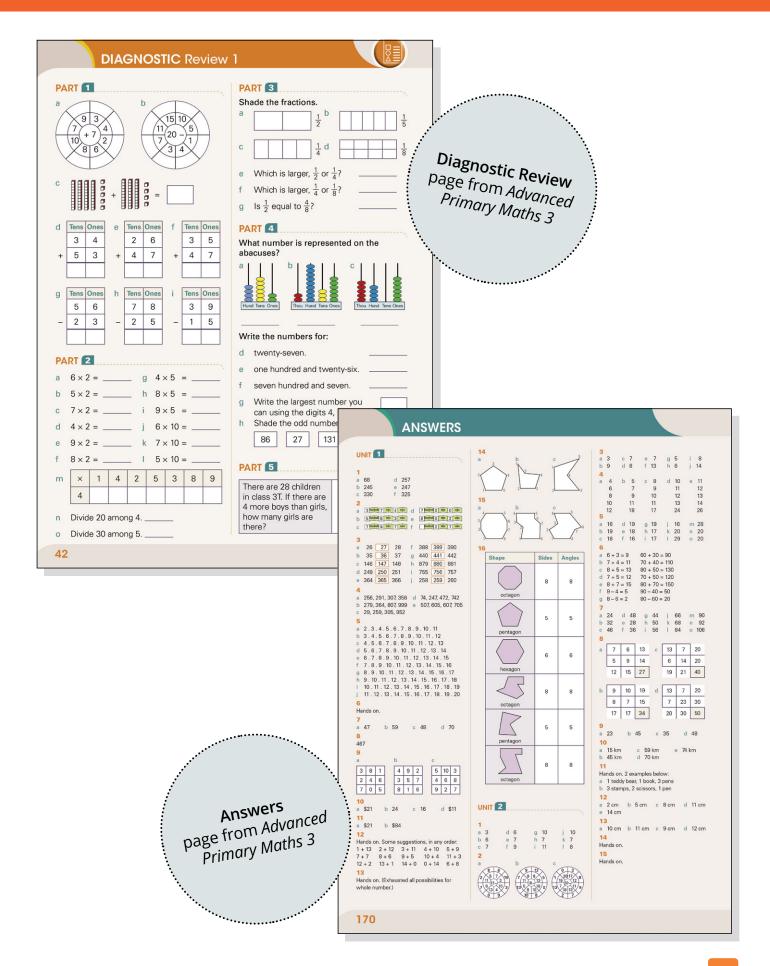


Advanced Primary Maths

Use the Diagnostic Reviews and Answers to assess students' understandings of concepts covered.

UNIT23 Number patterns	
Complete each pattern then write a rule for it. a 8 12 16 20	
	Activit
b 7 10 13 16	from 4 page
c 18 22 26 30	Priman
d 30 35 40 45	Activity page from Advanced Primary Maths 3
Add 6 to this sequence of numbers.	
+ 6 16 26 36 46 56 66 76 86	My pattern is take away 5.
6	55, 50, 45,
What did you learn about this number sequence?	
	Students can use the Super Problem Solving
Subtract 6 from this sequence of numbers. - 19 29 39 49 59 69 79 89 99	pages, with Open-ended Challengers and Weekly Testers, to consolidate and extend their learning.
- 19 29 39 49 59 69 79 89 99 6 99 </td <td></td>	
What did you learn about this number sequence?	
Complete the pattern up to 8 numbers, then state what	the tenth number or term
would be. a 2 4 6 8 10 c 14 1	
a 2 4 6 8 10 c 14 1 What would be the tenth number? What w	
	11 Answer the number sentences. Always do the work in the brackets first.
b 3 6 9 12 15 d 16 2	a $(3 + 7) \times 2 =$ f $(20 - 6) \div 2 =$ k $5 \times 4 + 3 \times 6 =$ b $2 \times (5 - 3) =$ g $(20 - 13) \times 4 =$ l $6 \times 5 + 20 \div 5 =$
What would be the tenth number? What w	c $2 + 3 \times 5 =$ h $(40 - 20) \div 4 =$ m $2 \times 7 + 26 \div 13 =$ d $4 \times (20 - 10) =$ i $20 \times 2 - 6 =$ n $6 \times 6 - 15 \div 3 =$
	e $(13-7) \times 5 =$ j $9 \times 5 - 27 =$ o $10 \times 5 - 16 \div 4 =$
SUPER QUESTION	12 Solve the problems.
10 Complete the number parterns.	a Taylor scored 58 runs and b 5 pizzas cost Mr Brown \$35. 38 runs in his first test match. How much did each pizza cost if
a 16 32 64 b 512	What was his total score? they were all the same price?
104 Describe, continue and create number patterns resulting fr	WEEKLY TESTER
	13 Ken and Barby each made a prism. Barby finished her
÷	prism and proudly displayed it. Ken was a bit of a slow worker and only finished the first layer of his prism.
Super Questions for exploring	a If Ken's prism were to have the same number of blocks as Barby's, how many more layers would it need?
concepts at a higher level	b Design and sketch another prism that is made of 24 cubes. Barby's model
Weekly Testers	
	Ken's model
Open-ended Challenger	
questions with multiple	OPEN-ENDED CHALLENGER
solutions	14 Rebecca paid \$15 for her group to enter the zoo. How man could have been in Rebecca's group if children cost \$1.50 c
	Correct Challenger Super Problem Solving Page from Advanced Primary Maths 3
	nom Advanced
	Primary Mathe 2
	Represent money values in multiple ways and count the change required for simple transactions to the nearest five cents (ACMINAD

Advanced Primary Maths

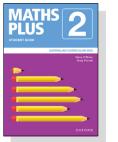


Explore Maths Plus

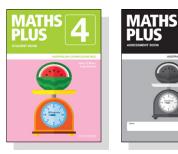
Value Pack - Student Book and Assessment Book

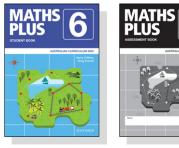






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Explore Maths Plus

Teacher Books







MATHS 2



MATHS 3







Mentals and Homework Books





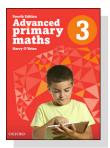








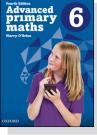
Advanced Primary Maths











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Maths Plus Australian Curriculum

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9780190337575	Mentals and Homework Book 6	\$20.95	
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