

Maths Plus Australian Curriculum

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



OXFORD

Practise, master, assess

MATHS PLUS AT A GLANCE

TEACHING AND LEARNING APPROACH

- Spiralling, also known as 'spacing'
- Supports practice and consolidation

HOW?

Students explore and revisit mathematical concepts over time, building their skills, developing understanding and making connections.

WHAT SORT OF ACTIVITIES ARE INCLUDED?

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

LEARNING OUTCOME

The spiralling approach helps students develop robust recall of information, consolidating learning and increasing their mathematical fluency.

STUDENT RESOURCES

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

TEACHER RESOURCES

Teacher Books

Teacher Dashboard, which provides online access to a wealth of resources and support material for Foundation to Year 6, including:

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

CURRICULUM ALIGNMENT

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

What does Maths Plus look like in the classroom?





1

Plan and implement teaching

Use the Teacher Dashboard or Teacher Book to access lesson plans and learning support, including explicit references to the Student Books.

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Assess the results

4

Use the post-tests to measure student growth and report on competency and understanding.

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Practise

The Student Books and Student Dashboards provide multiple problem-solving opportunities for the students to explore and practise mathematical concepts.

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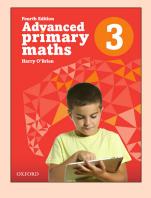
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Master

3

The Mentals and Homework Books allow students to practise their skills, consolidate understanding and increase fluency.





Challenge and extend

Advanced Primary Maths is an accelerated program of mathematics that can be used in conjunction with Math Plus.

It engages and extends students in Years 3 to 6, and supports the effective teaching of mathematics through problem solving and openended learning in real-world contexts.

See pages 22–25



Plan and implement teaching

RESOURCES

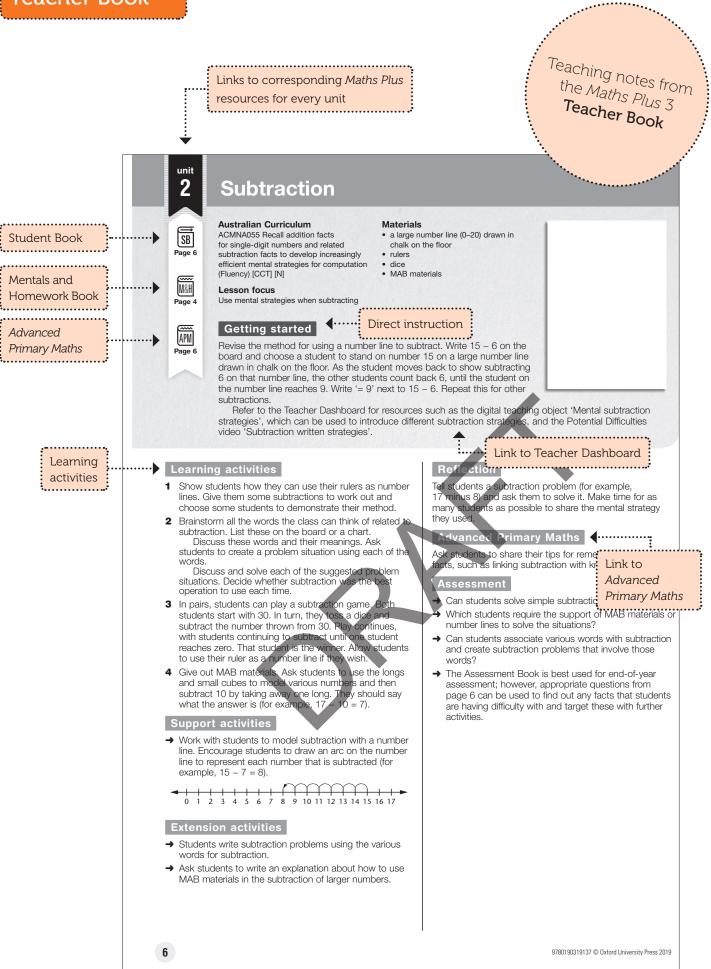
Teacher Book and Teacher Dashboard



Refer to the *Maths Plus* **Teacher Book** for curriculum links, direct instruction and links to the Teacher Dashboard, 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

Term planner from the Maths Plus 3 Teacher Book*

Term planners

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		TERM 1	SUGGESTED PLANNER		· · · · · · · · · · · · · · · · · · ·
VEEK	UNIT	PAGES	Number & Algebra	Measurement & Geometry	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.	Draw lines of symmetry on shapes. Complete drawings of symmetrical shapes. Compare informal areas. Make like areas. Compare area units.	
3	3	10–13	Count on or back for addition or subtraction. 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	Identify vertical and horizontal lines.	
6	6	22–25	Expand three-digit numbers. Use > or < to compare numbers. Use mental strategies to multiply by 5.	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. Expand numbers to 5000.	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.	Match sets of faces to 3D objects. Develop strategies to calculate area.	
9	9	34–37	Use the split strategy to add two- digit numbers. Solve problems using the split strategy. Learn to trade in a two-digit algorithm.	Identify quarter to and quarter past on a clock face. Add hands to illustrate various times.	Interpret and construct picture graphs.
10		38–39		Diagnostic review 1	

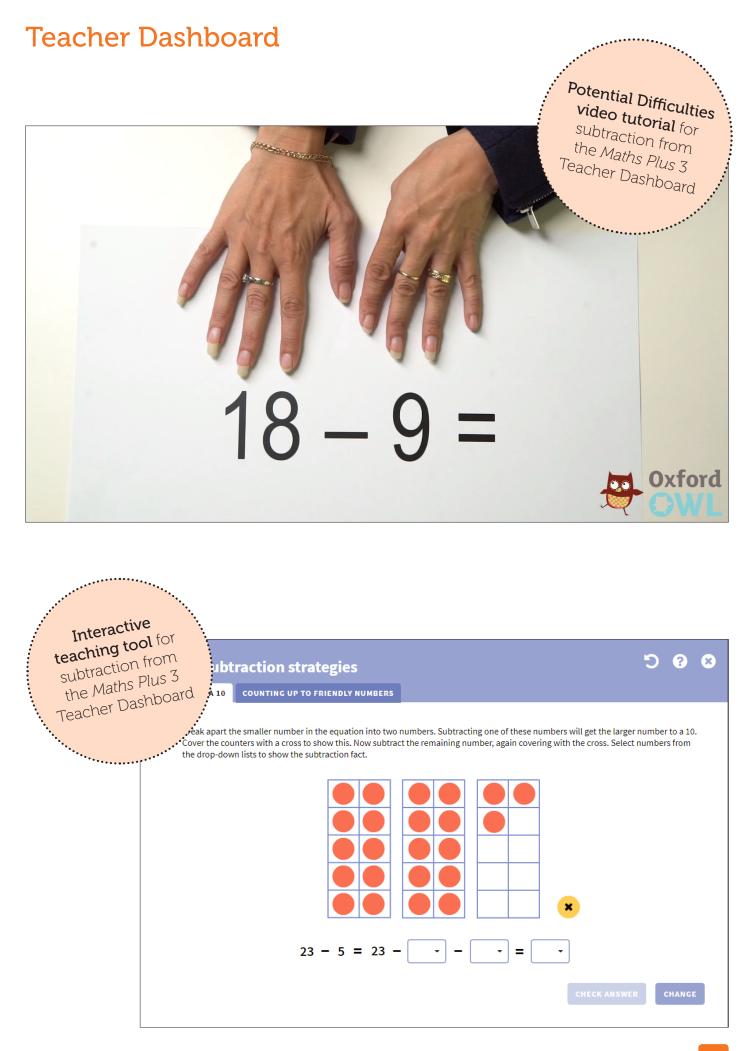
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Teacher Dashboard

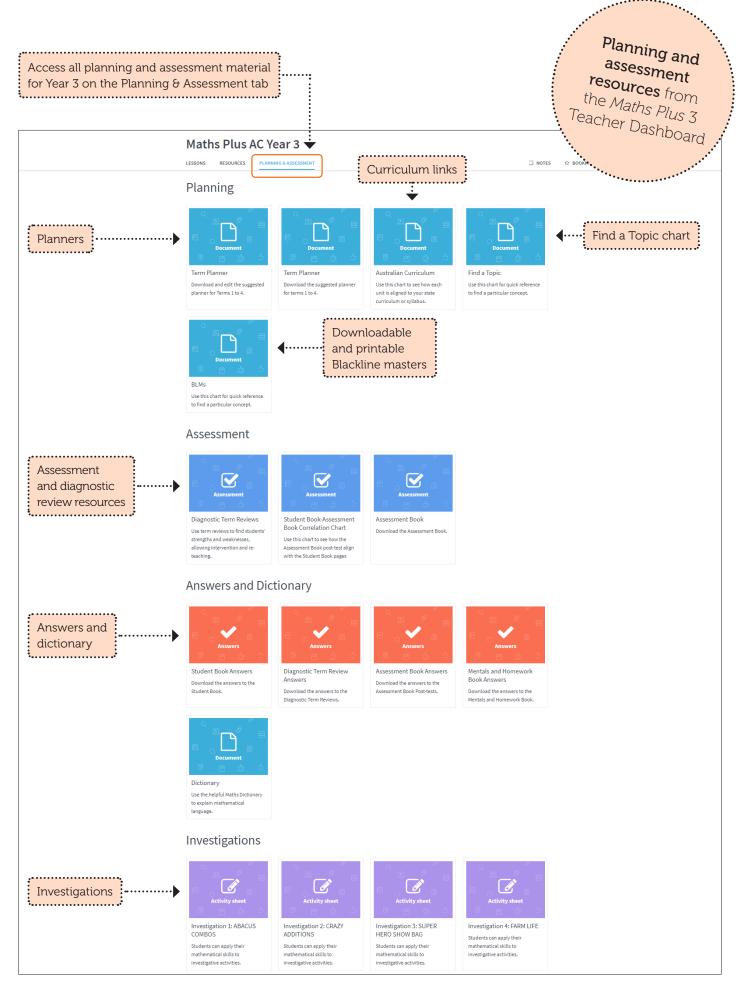
art your lesson by navigatin OxfordOWL Library Maths Plus		tab tab Teaching note and resources from the Maths Plus 3 Teacher Dashboard
Cotopage V Unit 1 Vunit 2 Subtraction Odd and even number Symmetry Informal units		Constanted
 unit3 esources are available at le top of each page unit6 unit7 unit8 	Other resources	Whole-class and small-group teach Interactive Teacher notes: Unit 2, subtraction Digital teaching object: Mental subtraction
Unit 10 Unit 11 Potential Difficulties video tutorial	Use the video to explore potential difficulties around this topic.	Download the teacher notes for p. 6.
 Unit 14 Unit 15 Unit 16 Unit 17 Unit 18 		With 2 Subtraction Pere Australia Curriculun Without Control to develop increasing interview in the factor interview in
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✓ Unit 20✓ Unit 21		Page 5 based and choose a dukant to stand on number 15 on a large number ine drawn in data to the four. As the sudant more shack to show subtraction on the number line, the other students count back 6, until the student on subtractions. Refer to the Teacher Dashboard for resources such as the digital teaching object: Mental subtraction

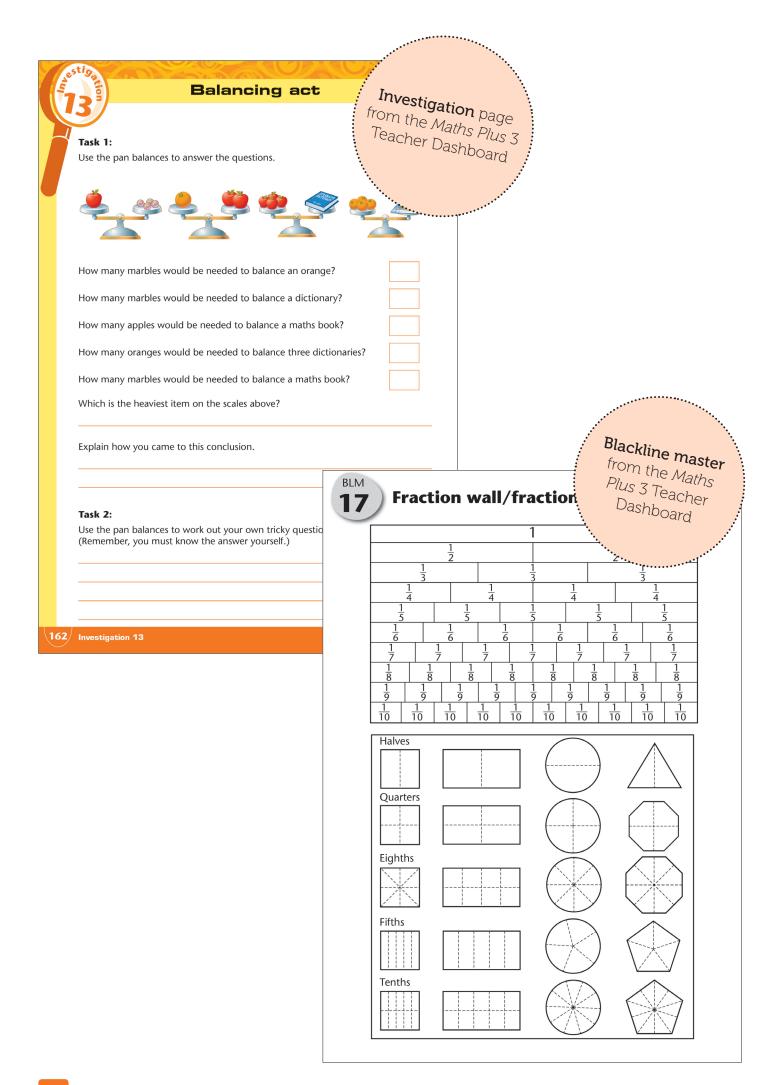


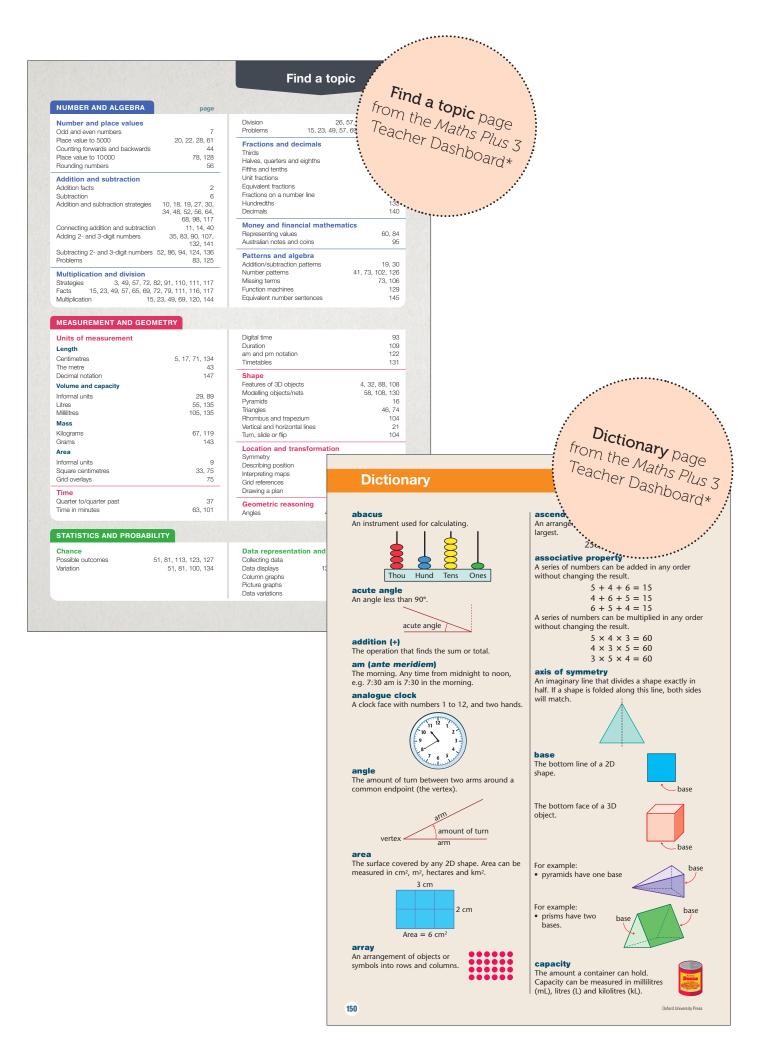
Teacher Dashboard



Teacher Dashboard







*This resource is part of the new edition Student Books and not yet available on the Teacher Dashboard



RESOURCES

Student Books and Student Dashboards

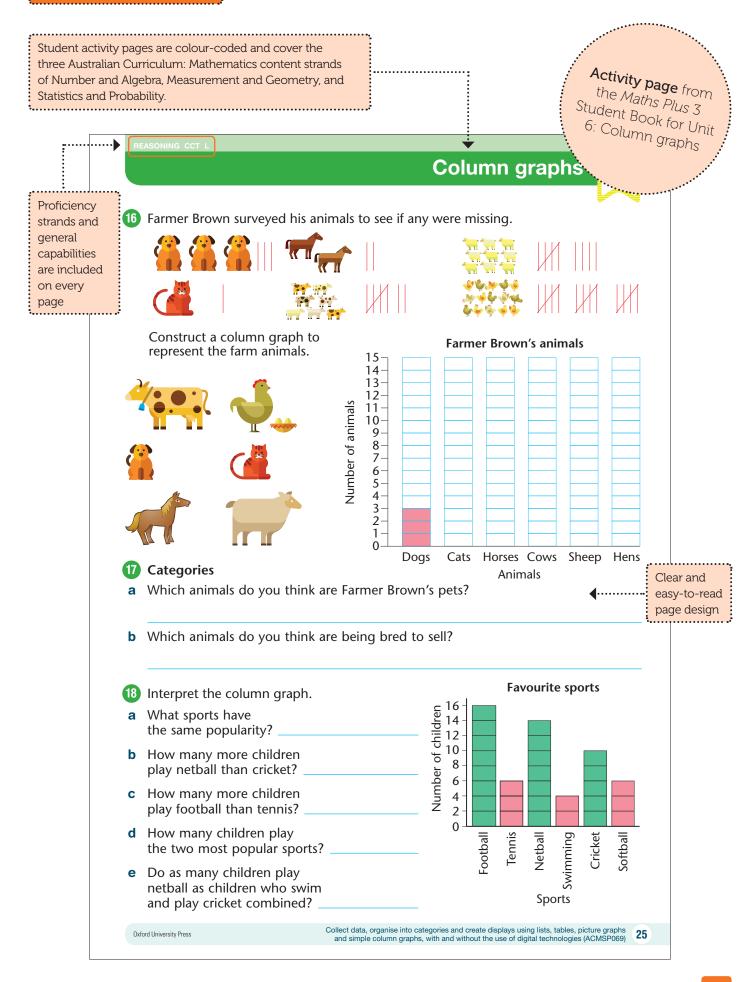


The *Maths Plus* **Student Books** and **Student Dashboards** offer opportunities for spiralled learning and practice, and for students to develop and consolidate skills in understanding, fluency, reasoning and problem solving.

They include:

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

Student Book



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Activity page from the Maths Plus 3 Student Book for Unit 25: Patterns and non-patterns

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	b	35	45	55	60	75	80			g		1	2	4	8	16	32			
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Diagnostic term review from the Maths Plus 3 Student Book

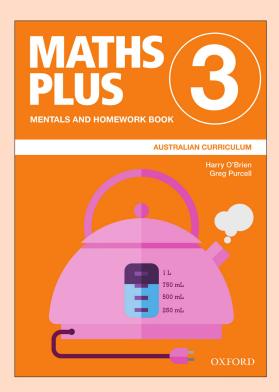
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		D	iagnos	tic rev	Sludent
					••••••••••
PART (7)					PART 10
Draw congruent copies of these shapes.	a b	Which c is most to be sp Is it mor that blu spun tha	likely oun? re likely e will be	Yellow	een Blue
PART (8)					PART (11
Draw lines of symmetry on these regular			Bus Ti	metable	
2D shapes.	B	Beach St	Bay Rd	Lake St	School
		9:30	9:38	9:45	9:56
	a b c d	From Ba From Be	each St to L ay Rd to the each St to th ske St to the	e school ne school	PART (12
PART 9		cord each cimal.	n length me	easurement	
Draw a line to match each 3D object to its	а	1 m 25	cm =	. m	I
net.	b	2 m 37	cm =	. m	I
	C	6 m 49	cm =	. m	PART 13
	An	swer the	questions.		
	a			es in 1 litre?	
	b		-	etres in 1 me	etre?
	C		-	n 1 kilogran	
	d		, .	in 1 hour?	
triangular prism cube rectangular prism	e		-	es in $\frac{1}{2}$ litre?	
					1



RESOURCES

Mentals and Homework Books

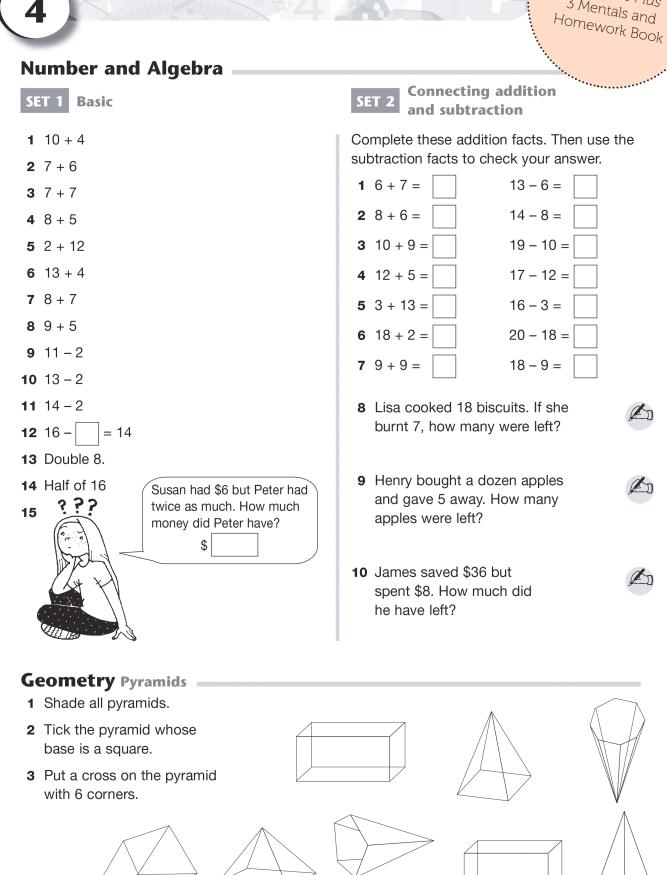


The *Maths Plus* **Mentals and Homework Books (Years 1–6)** provide opportunities to practise and develop skills and strategies.

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.

Activity page from the Maths Plus 3 Mentals and



UNIT

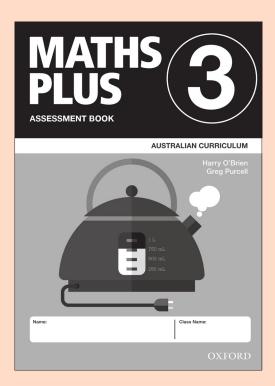
8



Assess the results

RESOURCES

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
- include a simple marking system that enables easy conversion to percentages.

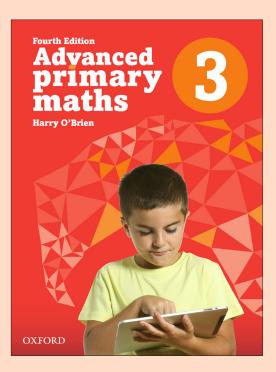
Each Assessment Book page is a snapshot Post-test of work that addresses a specific content from the description from the Australian Curriculum. Maths Plus 3 t • Assessment Book **Subtraction** Recognise and explain the connection between addition and subtraction (ACL Recall addition facts for single-digit numbers and related subtraction facts to deve increasingly efficient mental strategies for computation (ACMNA055) Answer these subtraction facts. 1 9 - 6 =4 11 – 5 = 7 13 – 7 = 5 2 8 – 5 = 14 – 6 = 8 18 – 13 = 6 3 9 7 – 4 = 19 – 7 = 19 – 15 = **10** Demonstrate how to solve this subtraction using the 63 – 24 = jump strategy on the number line. (Subtract the tens, then the ones.) It has been started for you. T I I 1 1 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 Subtractions can be checked using addition, e.g. 10 - 4 = 6 can be checked by 6 + 4 = 10or 4 + 6 = 10. Write an addition fact to check the subtractions in the table below. Place a tick or cross in the box to show if the subtractions are correct. Subtraction fact Addition fact 11 16 - 8 = 812 24 - 16 = 813 32 - 13 = 18Calculate the differences in mass between: Toula 45 kg Bing 88 kg Fred 64 kg Sandy 30 kg Tim 12 kg **14** Toula and Sandy ____ 16 Fred and Sandy _____ **15** Fred and Tim **17** Fred and Toula _____ Solve the subtractions. 18 Tens Ones Hund Tens One Hund Tens One 19 20 8 3 6 7 4 8 26 3 5 2 3 1 3 4 3



Challenge and extend

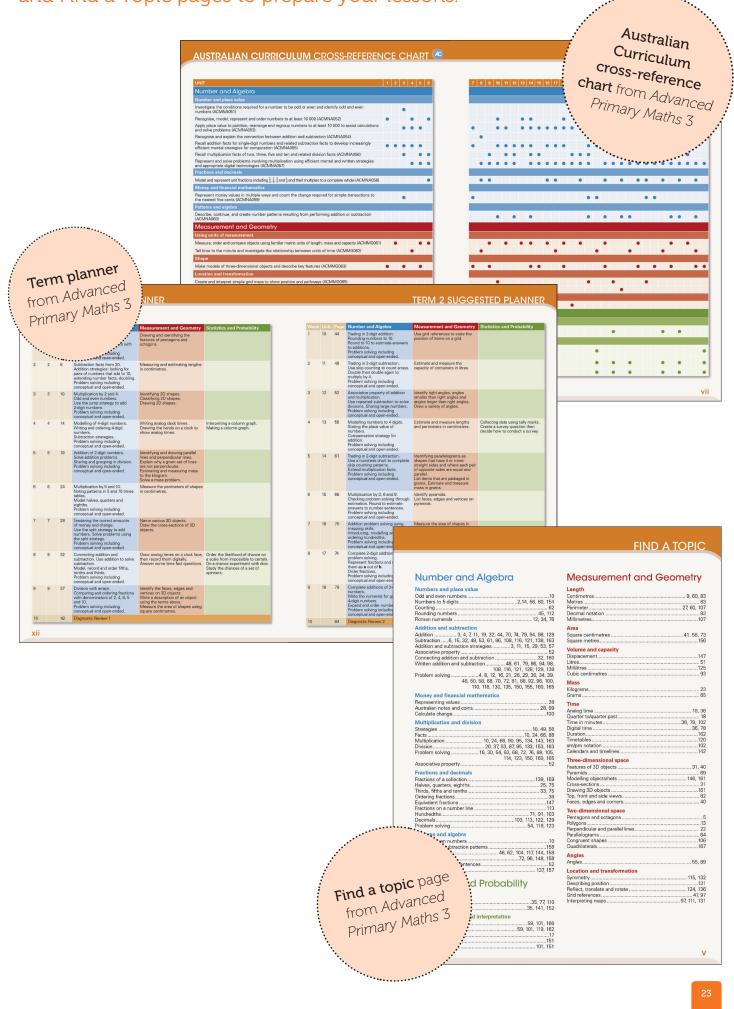
RESOURCES

Advanced Primary Maths



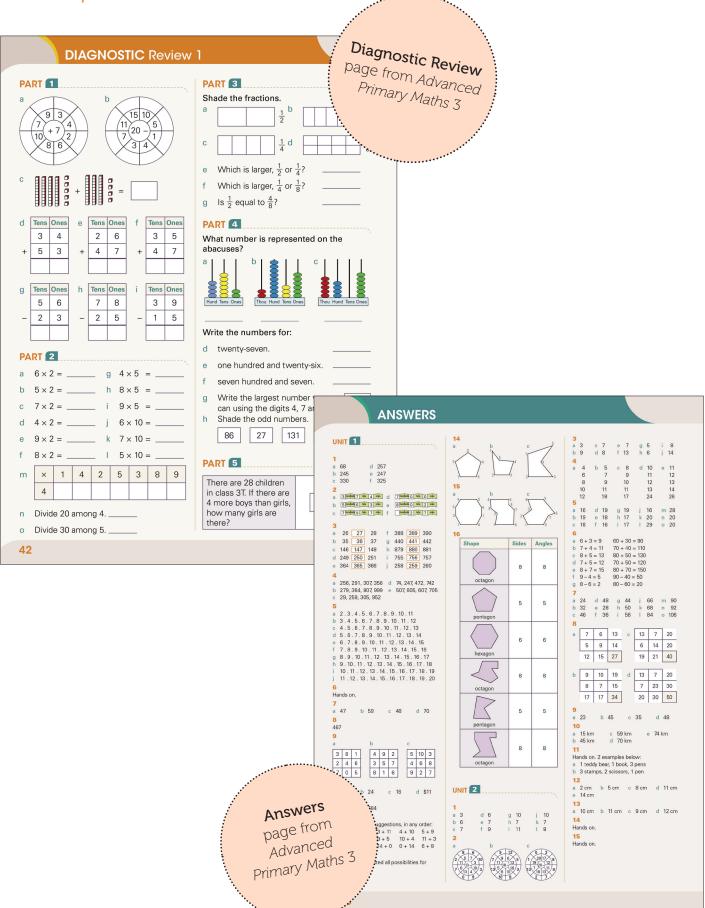
Advanced Primary Maths is the only advanced mathematics program written specifically for Australian students. It engages and extends students in Years 3 to 6 in line with the Australian Curriculum.

Use the curriculum cross-reference charts, Term Planners and Find a Topic pages to prepare your lessons.



Advanced Primary Maths

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



23 Number patterns	Activity page from Advanced Primary Maths 3 Unit 23: Number Patterns
Complete each pattern then write a rule for it.	Unit 23: Numb
8 12 16 20	patterns
7 10 13 16	
18 22 26 30	
30 35 40 45	
Add 6 to this sequence of numbers.	My pattern is
6 16 26 36 46 56 66 76 86	take away 5. 55, 50, 45,
at did you learn about this number sequence?	
Subtract 6 from this sequence of numbers.	- F 19
19 29 39 49 59 69 79 89 99	
at did you learn about this number sequence?	Students can use the Super Problem Solving pages, with
Complete the pattern up to 8 numbers, then state what the	
would be.	Weekly Testers, to consolidate
	22 26 30
3 6 9 12 15 d 16 22 2	28 34 40
What would be the tenth number? What would	be the tenth term?
	· · · · · · · · · · · · · · · · · · ·
SUPER QUESTION Complete the number patterns.	
16 32 64 b 512 256	
	Answer the number sentences. Always do the work in the brackets first.
4 Describe, continue and create number patterns resulting from per	$D = 2 \times (5-3) = 0$ $g = (20-13) \times 4 = 1$ $0 \times 5 + 20 \div 5 = 0$
	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 $6 \times 6 - 15 \div 3 =$
per Questions for exploring	e $(13 - 7) \times 5 = j$ $9 \times 5 - 27 = 0$ $10 \times 5 - 16 \div 4 =$ 12 Solve the problems.
ncepts at a higher level	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 What was his total score? they were all the same price?
M(ach) Teatan	
Weekly Testers	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.
	a If Ken's prism were to have the same number of blocks as
	Barby's, how many more layers would it need? b Design and sketch another prism that is made of 24 cubes. Barby's model
	Ken's model
Open-ended Challenger	
questions with multiple	OPEN-ENDED CHALLENGER
	14 Rebecca paid \$15 for her group to enter the zoo. How many children
questions with multiple	14 Rebecca paid \$15 for her group to enter the zoo. How many children
questions with multiple	14 Rebecca paid \$15 for her group to enter the zoo. How many children
questions with multiple	Rebecca paid \$15 for her group to enter the zoo. How many children could have been in Rebecca's group if children cost \$1.50 and additional additionaddita additional additional additio

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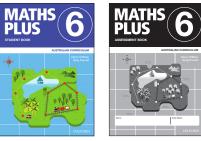
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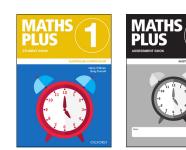
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Mentals and Homework Books





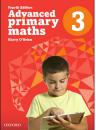


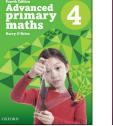




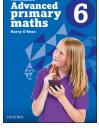


Advanced Primary Maths





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