Maths Trek

Scope & Sequence

Kindergarten to Year 6

NSW Syllabus Edition

Matched to the NSW Syllabus

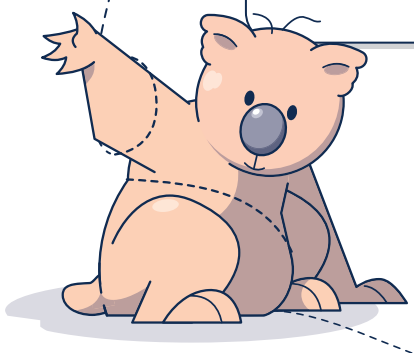
Availability information

Kindergarten–Year 2 will be ready for use in classrooms in 2025.

Years 3–6 will be ready for use in classrooms in 2026.
In the meantime, schools can use the Australian Curriculum Edition.

06/24

Contents



ISBN 978 1 74135 328 0

The Maths Trek Program

Maths Trek is a whole-school numeracy program for Kindergarten 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.

In the Student Book* you will find ...

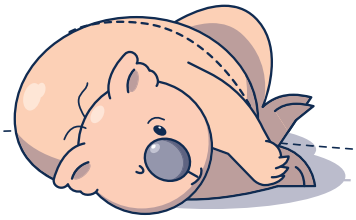
- shared *Work together* activities
- modelled examples
- independent activities to develop and master maths skills
- concepts revisited throughout the year
- scaffolded problems to learn key problem-solving strategies
- practice problems to build confidence in applying the strategies
- real-world investigations 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 Kindergarten.*



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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.

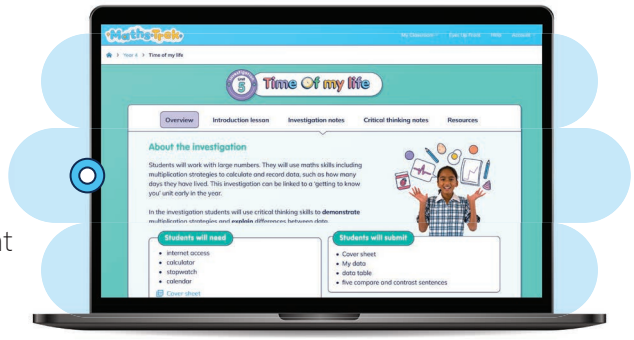
To maximise the benefits of the program, use the Student Book with the explicit teaching resources at Maths Trek Online to build, develop and strengthen each student's ability to work mathematically.

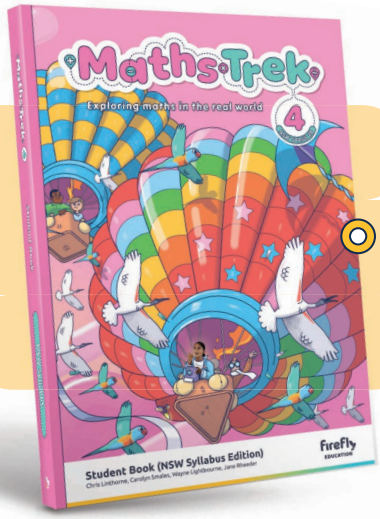
An adventure in maths for every student from Kindergarten to Year 6!

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 Kindergarten to reflect the learning needs of students.*

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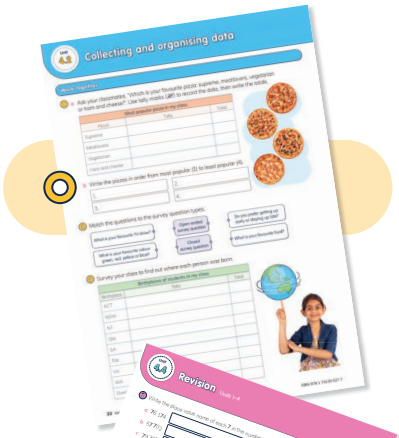
Using the Student Book with Online

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

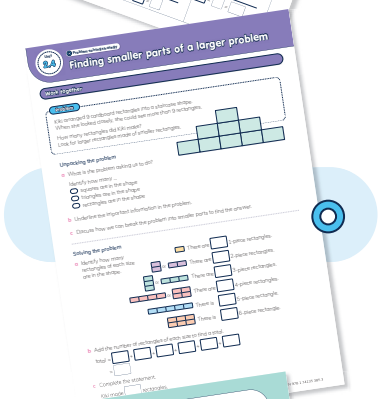
Use the revision activities throughout the Student Book to consolidate each student's learning and identify strengths and weaknesses.

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.

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.

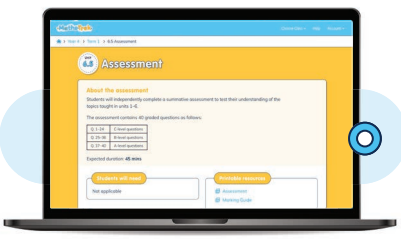
Use the online teaching notes, exemplars, videos and printable resources to introduce and guide students through each step of the investigation.

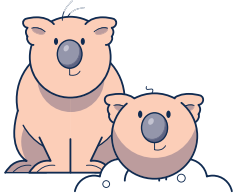
Use the online critical thinking lessons to ensure students can reflect, reason and communicate their understanding of what they have discovered.

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.





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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** O'clock **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** Events in my day
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** Area **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** Ask questions to 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** Sort and describe 3D objects **18.3** Half a length **18.4** Revision: Units 16–18

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Term 3

Term 4

Week 1
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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** Odd and even number patterns **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** Time – o'clock, half past **4.4** PS strategy: Finding a pattern
Week 5	**Unit 5**	**5.1** Possible outcomes **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 2D 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 2D shapes **8.4** Revision: Units 7–8

Term 2

	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
	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
	Unit 11	**11.1** Representing two-digit numbers **11.2** Turnarounds **11.3** Describing position **11.4** PS strategy: Finding the useful information
	Unit 12	**12.1** Addition using think boards **12.2** Doubles and near doubles **12.3** Following directions **12.4** Revision: Units 9–12
	Unit 13	Investigation: Numbers up
	Unit 14	**14.1** Partitioning to 20 **14.2** Skip counting by twos to 100 **14.3** Object graphs **14.4** Assessment
	Unit 15	**15.1** Subtraction **15.2** Repeating shape patterns **15.3** Identify 3D objects **15.4** Problem-solving practice
	Unit 16	**16.1** Subtraction number sentences **16.2** Subtraction using think boards **16.3** Sort and describe 3D objects **16.4** Revision: Units 14–16

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Term 3

Term 4

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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** Measuring area **7.4** Problem-solving practice
Week 8	**Unit 8**	**8.1** Subtraction facts **8.2** Subtraction using friendly jumps **8.3** Classifying 2D shapes **8.4** Revision: Units 7–8

Term 2

Unit 9	**9.1** Read, write and represent numbers to 500 **9.2** Extending addition facts **9.3** Simple maps **9.4** PS strategy: Finding the useful information
Unit 10	**10.1** Ordering numbers to 1000 **10.2** Addition using split strategy **10.3** Addition and subtraction facts are related **10.4** PS strategy: Guessing and checking
Unit 11	**11.1** Place value to hundreds **11.2** Addition with bar models **11.3** Features of shapes **11.4** PS strategy: Acting out the problem
Unit 12	**12.1** The role of a zero **12.2** Measuring length **12.3** Classifying objects **12.4** Revision: Units 9–12
Unit 13	Investigation: Marble ramp
Unit 14	**14.1** Number expanders **14.2** Expanded notation **14.3** Extending subtraction facts **14.4** Assessment
Unit 15	**15.1** Subtraction with bar models **15.2** Maps, pathways, directions **15.3** Measuring and comparing mass **15.4** Problem-solving practice
Unit 16	**16.1** Addition using jump strategy **16.2** Faces, edges, vertices **16.3** Measuring and comparing mass **16.4** Revision: Units 14–16

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Term 3

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Extra investigations

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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 strategies **2.2** Subtraction strategies **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 **3.4** PS strategy: Making an organised list
Week 4	**Unit 4**	**4.1** Odd and even numbers **4.2** Addition with partitioning **4.3** Subtraction with partitioning **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** Dot plots **10.2** Turnarounds and friendly pairs **10.3** Number sentences and word problems **10.4** PS strategy: Solving a simpler problem
Week 2	**Unit 11**	**11.1** Solving problems with bar models **11.2** Comparing 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** Area with square metres **12.3** Area with square centimetres **12.4** Revision: Units 10–12
Week 4	**Unit 13**	Investigation: Kilogram quest
Week 5	**Unit 14**	**14.1** Addition with bar models **14.2** Subtraction with bar models **14.3** Ordering numbers **14.4** Assessment
Week 6	**Unit 15**	**15.1** Time to the hour **15.2** Measuring with litres **15.3** Comparing and ordering numbers **15.4** PS strategy: Working backwards
Week 7	**Unit 16**	**16.1** Number patterns **16.2** Multiples 2, 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 2, 4 **17.2** Multiplication facts 5, 10 **17.3** Square numbers **17.4** Revision: Units 14–17
Week 9	**Unit 18**	Investigation: Picture perfect patterns

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Term 1

Week 1	**Unit 1**	**1.1** Maths is everywhere **1.2** Place value to ten thousands **1.3** Addition
Week 2	**Unit 2**	**2.1** Subtraction **2.2** Multiples **2.3** Multiplication by 10 **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, 4, 8, 5, 10 **3.3** Multiplication facts 3, 6, 9 **3.4** PS strategy: Making an organised list
Week 4	**Unit 4**	**4.1** Drawing pyramids and prisms **4.2** Collecting and organising data **4.3** Modelling multiplication with arrays **4.4** Revision: Units 1–4
Week 5	**Unit 5**	Investigation: Time of my life
Week 6	**Unit 6**	**6.1** Multiplication problem-solving **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 grams **8.2** Rounding to 100 000 **8.3** Measuring with kilograms and grams **8.4** Revision: Units 6–8
Week 9	**Unit 9**	Investigation: Plenty of pikelets

Term 2

	Unit 10	**10.1** Factors **10.2** Places value and expanded notation **10.3** Symmetrical patterns **10.4** PS strategy: Making a table or chart
	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
	Unit 12	**12.1** Calculating perimeter **12.2** Area **12.3** Area of irregular shapes **12.4** Revision: Units 10–12
	Unit 13	Investigation: It's only natural
	Unit 14	**14.1** Describing possible outcomes **14.2** Dependent and independent events **14.3** Views of 3D objects **14.4** Assessment
	Unit 15	**15.1** Equivalent number sentences **15.2** Addition **15.3** Subtraction **15.4** PS strategy: Guessing and checking
	Unit 16	**16.1** Dot plots **16.2** Multiplying and dividing by 10, 100, 1000 **16.3** Comparing and ordering numbers **16.4** PS strategy: Solving a simpler problem
	Unit 17	**17.1** Estimation strategies **17.2** Grid references **17.3** Maps, pathways and directions **17.4** Revision: Units 14–17
	Unit 18	Investigation: Heritage hunt

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Extra investigations

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Term 1

Week 1	**Unit 1**	**1.1** Maths is everywhere **1.2** Fact families for multiplication and division **1.3** Modelling division
Week 2	**Unit 2**	**2.1** Place value to millions **2.2** Addition **2.3** Subtraction **2.4** PS strategy: Guessing and checking
Week 3	**Unit 3**	**3.1** Rounding to ten thousands **3.2** Estimation strategies **3.3** 24-hour time **3.4** PS strategy: Acting out the problem
Week 4	**Unit 4**	**4.1** Reading timetables **4.2** Australian time zones **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** Measuring mass **6.2** Measuring with tonnes and kilograms **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 the area model **7.2** Place value to thousandths **7.3** Rounding decimals **7.4** PS strategy: Drawing a picture or diagram
Week 8	**Unit 8**	**8.1** Timelines **8.2** Multiplication using split and multiply **8.3** Column graphs **8.4** Revision: Units 6–8
Week 9	**Unit 9**	Investigation: Breakfast club

Term 2

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
Unit 11	**11.1** Perimeter of rectangles **11.2** Area of rectangles **11.3** Perimeter and dimensions **11.4** PS strategy: Solving a simpler problem
Unit 12	**12.1** Hectares and square kilometres **12.2** Classifying triangles **12.3** Quadrilaterals **12.4** Revision: Units 10–12
Unit 13	Investigation: Radical renovation
Unit 14	**14.1** Addition **14.2** Subtraction with zeros **14.3** Multi-step problems – add and subtract **14.4** Assessment
Unit 15	**15.1** Measuring with kilometres **15.2** Division using split and divide **15.3** Division **15.4** PS strategy: Finding a pattern or using a rule
Unit 16	**16.1** Line graphs **16.2** Column graphs **16.3** Comparing graphs **16.4** PS strategy: Working backwards
Unit 17	**17.1** Factors **17.2** Prime and composite numbers **17.3** Division **17.4** Revision: Units 14–17
Unit 18	Investigation: Factor frenzy

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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** Fractions as division **2.3** Rotational symmetry **2.4** PS strategy: Working backwards
Week 3	**Unit 3**	**3.1** Properties of angles **3.2** Multiplication **3.3** Division with remainders as fractions **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** Percentages **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** Modelling to solve problems **10.3** Timelines **10.4** PS strategy: Making an organised list
Week 2	**Unit 11**	**11.1** Equivalent fractions **11.2** Side-by-side column graphs **11.3** Line graphs **11.4** PS strategy: Guessing and checking
Week 3	**Unit 12**	**12.1** Stacked line graphs **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** Fractional parts build to the whole **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

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Term 3

Unit 19
- 19.1 Coordinates in one quadrant
- 19.2 Area of parallelograms
- 19.3 Area of triangles
- 19.4 PS strategy: Acting out the problem

Unit 20
- 20.1 Percentages
- 20.2 Renaming fractions as percentages
- 20.3 Discount
- 20.4 Problem-solving practice

Unit 21
- 21.1 Multi-step problems
- 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 Skeletal models of pyramids
- 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 Division with remainders to tenths
- 26.2 Division with remainders to hundredths
- 26.3 Volume
- 26.4 Revision: Units 23–26

Unit 27 Investigation: Is petrol pricey?

Term 4

Unit 28
- 28.1 Volume
- 28.2 Patterns and rules
- 28.3 Translation, reflection, rotation
- 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 Fair and unfair outcomes
- 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

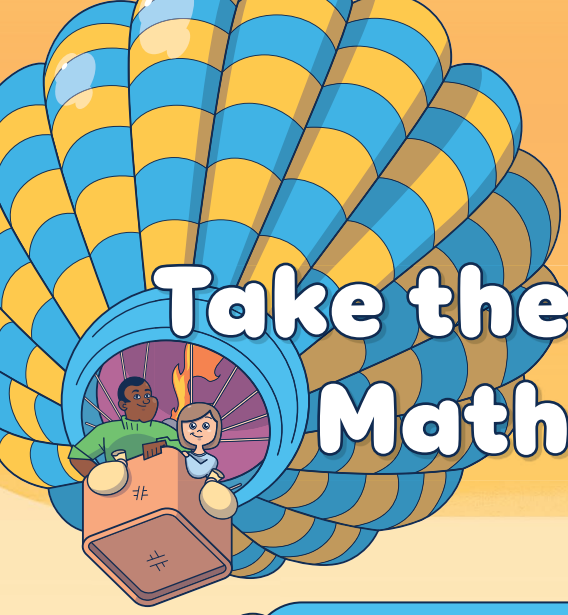
Investigation: Octi-origami

Investigation: Weird or wonderful weather

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

ISBN 978 1 74135 328 0

Take the next step in your Maths Trek journey



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