

Mathletics Victorian Mathematics V2.0

Scope & Sequence



Level 5

Mathletics

	Term one	Term two	Term three	Term four
Unit 1	Number	Number	Number	Number Algebra
	Whole number and decimals <ul style="list-style-type: none"> Place value to thousandths Partitioning Compare & order Whole number review 	Fractions <ul style="list-style-type: none"> Compare and order Mixed numbers & improper fractions Equivalent fractions Add & Subtract fractions: Same or related denominators 	Fractions, decimals, and percentages <ul style="list-style-type: none"> Connect fraction, decimal and percentage equivalents Represent remainders as fractions and decimals Problem solving 	Number and operations review <ul style="list-style-type: none"> Review earlier content
Unit 2	Number	Number Algebra	Number	Statistics
	Addition and subtraction: Mental <ul style="list-style-type: none"> Round to estimate Problem solving Strategy review 	Multiplication and division: Mental strategies <ul style="list-style-type: none"> Efficient mental strategies Factorising 	Multiplication and division: Written strategies and solving problems <ul style="list-style-type: none"> Multiplication algorithm Contracted division Problem solving 	Data: Investigation and evaluation <ul style="list-style-type: none"> Misleading diagrams Evaluate statements about displays Interpret data displays Mode
Unit 3	Number Algebra	Number Algebra	Probability Statistics	Measurement
	Factors, multiples and patterns <ul style="list-style-type: none"> Factors, Multiples Common multiples Divisibility tests Patterns with factors & multiples 	Algebra <ul style="list-style-type: none"> Create and use algorithms Inverse operations Fact families Find unknown values 	Chance and data <ul style="list-style-type: none"> List outcomes Conduct chance experiments Record results Compare outcomes Estimate likelihoods 	Time and position <ul style="list-style-type: none"> Read and represent 12- & 24-hour time Convert times Use timetables Grid coordinate systems Directional language
Unit 4	Measurement Number	Measurement	Space	Measurement
	Length, area and perimeter <ul style="list-style-type: none"> Kilometres, metres, centimetres & millimetres Compare & order lengths Estimate lengths Calculate perimeter Calculate area 	Addition and subtraction: Written <ul style="list-style-type: none"> Written strategies 	Angles and 2D shapes <ul style="list-style-type: none"> Measure angles Estimate angles Classify angles Translations, reflections & rotations Symmetry 	Measurement applications <ul style="list-style-type: none"> Choose appropriate units Use measurement in everyday situations Problem solving Area and perimeter applications
Unit 5	Statistics	Space	Measurement Number	Space
	Data: Representation and interpretation <ul style="list-style-type: none"> Collect data Validate data Represent data 	2D space and 3D objects <ul style="list-style-type: none"> Connect 2D shapes with 3D objects Connect & create nets Sketch 3D objects 	Capacity and mass <ul style="list-style-type: none"> Kilolitres, litres & millilitres Tonnes, kilograms & grams Compare & order Estimate Problem solving 	Space review <ul style="list-style-type: none"> Review transformations Tessellation patterns Review Cartesian plane

Strand	Outcomes and content descriptions	Located
Number	VC2M5N01 interpret, compare and order numbers with more than 2 decimal places, including numbers greater than one, using place value understanding; represent these on a number line	T1 U1 T3 U1, U5
	VC2M5N02 express natural numbers as products of their factors, recognise multiples and determine if one number is divisible by another	T1 U3 T2 U2 T3 U2 T4 U1
	VC2M5N03 compare and order common unit fractions with the same and related denominators, including mixed numerals, applying knowledge of factors and multiples; represent these fractions on a number line	T2 U1 T3 U1
	VC2M5N04 recognise that 100% represents the complete whole and use percentages to describe, represent and compare relative size; connect familiar percentages to their decimal and fraction equivalents	T3 U1
	VC2M5N05 solve problems involving addition and subtraction of fractions with the same or related denominators, using different strategies	T2 U1 T4 U1
	VC2M5N06 solve problems involving multiplication of larger numbers by one- or two-digit numbers, choosing efficient mental and written calculation strategies and using digital tools where appropriate; check the reasonableness of answers	T2 U2 T3 U2 T4 U1
	VC2M5N07 solve problems involving division, choosing efficient mental and written strategies and using digital tools where appropriate; interpret any remainder according to the context and express results as a whole number, decimal or fraction	T2 U2 T3 U1, U2 T4 U1
	VC2M5N08 check and explain the reasonableness of solutions to problems, including financial contexts using estimation strategies appropriate to the context	T1 U2, U4 T2 U2
	VC2M5N09 use mathematical modelling to solve practical problems involving additive and multiplicative situations, including simple financial planning contexts; formulate the problems, choosing operations and efficient mental and written calculation strategies, and using digital tools where appropriate; interpret and communicate solutions in terms of the situation	T1 U2 T2 U2, U4 T3 U2 T4 U1
	VC2M5N10 follow a mathematical algorithm involving branching and repetition (iteration); create and use algorithms involving a sequence of steps and decisions and digital tools to experiment with factors, multiples and divisibility; identify, interpret and describe emerging patterns	T1 U3 T2 U3
Algebra	VC2M5A01 recognise and explain the connection between multiplication and division as inverse operations and use this to develop families of number facts	T1 U3 T2 U3
	VC2M5A02 find unknown values in numerical equations involving multiplication and division using the properties of numbers and operations	T1 U3 T2 U3

Strand	Outcomes and content descriptions	Located
Measurement	VC2M5M01 choose appropriate metric units when measuring the length, mass and capacity of objects; use smaller units or a combination of units to obtain a more accurate measure	T1 U4 T3 U5 T4 U4
	VC2M5M02 solve practical problems involving the perimeter and area of regular and irregular shapes using appropriate metric units	T1 U4 T4 U4
	VC2M5M03 compare 12- and 24-hour time systems and solve practical problems involving the conversion between them	T4 U3, U4
	VC2M5M04 estimate, construct and measure angles in degrees, using appropriate tools, including a protractor, and relate these measures to angle names	T3 U4
Space	VC2M5SP01 connect objects to their nets and build objects from their nets using spatial and geometric reasoning	T2 U5
	VC2M5SP02 construct a grid coordinate system that uses coordinates to locate positions within a space; use coordinates and directional language to describe position and movement	T4 U3, U5
	VC2M5SP03 describe and perform translations, reflections and rotations of shapes, using dynamic geometry software where appropriate; recognise what changes and what remains the same, and identify any symmetries	T3 U4 T4 U5
Statistics	VC2M5ST01 acquire, validate and represent data for nominal and ordinal categorical and discrete numerical variables to address a question of interest or purpose using software including spreadsheets; discuss and report on data distributions in terms of highest frequency (mode) and shape, in the context of the data	T1 U5 T3 U3 T4 U2
	VC2M5ST02 interpret line graphs representing change over time; discuss the relationships that are represented and conclusions that can be made	T1 U5 T4 U2
	VC2M5ST03 plan and conduct statistical investigations by posing questions or identifying a problem and collecting relevant data; choose appropriate displays and interpret the data; communicate findings within the context of the investigation	T1 U5 T3 U3
Probability	VC2M5P01 list the possible outcomes of chance experiments involving equally likely outcomes and compare to those that are not equally likely	T3 U3
	VC2M5P02 conduct repeated chance experiments, including those with and without equally likely outcomes, and observe and record the results; use frequency to compare outcomes and estimate their likelihoods	T3 U3

Strand & Topic	Outcomes	New Courses	Activities (Courses)	Skill Quests	Challenges	Ebooks
Unit 1 Number Whole number and decimals Place value to thousandths Partitioning Compare & order Whole number review	VC2M5N01 interpret, compare and order numbers with more than 2 decimal places, including numbers greater than one, using place value understanding; represent these on a number line	Y5 Decimals <ul style="list-style-type: none"> Tenths Hundredths Thousandths Decimals on the number line Order and compare decimals Y5 Rounding and Estimation <ul style="list-style-type: none"> Place Value Comparing and ordering whole numbers 	REVIEW Whole Numbers & Place Value <ul style="list-style-type: none"> Place Value to Millions Numbers from Words to Digits 1 Numbers from Words to Digits 2 Greater Than or Less Than? Partition and Rename 3 Expanded Notation Place Value 2 Place value 3 Place Value 1 Who's got the Money? Money Decimals <ul style="list-style-type: none"> Decimals from Words to Digits 1 Decimals on the Number Line Decimal Place Value Nearest Whole Number 	Understand decimals to thousandths <ul style="list-style-type: none"> Introducing decimal thousandths Partitioning decimals of any size Comparing & ordering decimals Interpreting zeros at end of decimals Decimal & fraction equivalences Connecting decimals to the metric system 	Number & Algebra: Decimals LEVEL 4–6 <ul style="list-style-type: none"> Code cracker (DOK 2) 	(Y6-G) Fractions, Decimals and Percentages <ul style="list-style-type: none"> Decimal fractions (pp 12–20)
Unit 2 Number Addition and subtraction: Mental Round to estimate Problem solving Strategy review	VC2M5N08 check and explain the reasonableness of solutions to problems ... VC2M5N09 use mathematical modelling to solve practical problems involving additive and multiplicative situations ...	Y5 Addition and Subtraction <ul style="list-style-type: none"> Addition strategies Subtraction strategies Y5 Rounding and Estimation <ul style="list-style-type: none"> Rounding Estimation 	Rounding & estimating <ul style="list-style-type: none"> Rounding Numbers Rounding off Numbers Estimate Sums Estimate Differences Estimate Decimal Sums 2 	Estimation & rounding <ul style="list-style-type: none"> Rounding to estimate addition & subtraction Add & subtract practical problems <ul style="list-style-type: none"> Addition & subtraction word problems Expressing word problems as equations add/sub Solving add & subtract money problems 	Number & Algebra: Decimals LEVEL 5–7 <ul style="list-style-type: none"> Posting parcels (DOK 2) Number & Algebra: Addition & Subtraction LEVEL 3–5 <ul style="list-style-type: none"> Solve the zig-zog logic fog (DOK 3) Mental strategies (DOK 3) LEVEL 4–6 <ul style="list-style-type: none"> Totally magic grid (DOK 2) LEVEL 5–7 <ul style="list-style-type: none"> Add-venn-turous adding (DOK 2) 	(Y6-G) Addition and Subtraction <ul style="list-style-type: none"> Mental strategies (pp 1–10) Applying strategies (pp 11–19)
Unit 3 Number Algebra Factors, multiples and patterns Factors Multiples Common multiples Divisibility tests Patterns with factors & multiples	VC2M5N02 express natural numbers as products of their factors ... VC2M5N10 follow a mathematical algorithm involving branching and repetition ... VC2M5A01 recognise and explain the connection between multiplication and division ... VC2M5A02 find unknown values in numerical equations involving multiplication and division ...	Y5 Number properties <ul style="list-style-type: none"> Divisibility tests for 2, 3, 5 and 10 Divisibility tests for 4, 6, 8 and 9 Multiples Factors Y5 Patterns and equivalence - coming soon <ul style="list-style-type: none"> Complete the pattern Patterns from words Problem-solving with patterns 	Factors & Multiples <ul style="list-style-type: none"> Multiples Lowest Common Multiple Factors Highest Common Factor Find the Factor Divisibility Tests (2, 5, 10) Divisibility Tests (3, 4, 9) Tests of Divisibility 1 	Multiples & factors <ul style="list-style-type: none"> Finding multiples Finding factors Solving problems using factors & multiples Divisibility tests <ul style="list-style-type: none"> Divisibility tests for 2, 5 & 10 Divisibility tests for 3, 4, 6, 8 & 9 Create & use algorithms <ul style="list-style-type: none"> Factors & multiples 	Number & Algebra: Multiplication & Division LEVEL 3–5 <ul style="list-style-type: none"> The greatest triangle! (DOK 2) LEVEL 4–6 <ul style="list-style-type: none"> Peculiar patterns with multiples (DOK 2) Multiple muffins (DOK 2) Supermarket stock dilemma (DOK 2) Training in sync (DOK 2) Factor in our clues (DOK 2) Tricky factors (DOK 2) Multiple relationships (DOK 2) Factor finding (DOK 2) Fear fact-ors (DOK 2) Number & Algebra: Addition & Subtraction LEVEL 3–5 <ul style="list-style-type: none"> Scores for a ball game (DOK 3) LEVEL 4–6 <ul style="list-style-type: none"> Multiple patterns (DOK 3) 	(Y5-F) Multiplication and Division <ul style="list-style-type: none"> Mental multiplication strategies (pp 9–10) Mental division strategies (pp 18–19)




Strand & Topic	Outcomes	New Courses	Activities (Courses)	Skill Quests	Challenges	Ebooks
<p>Unit 4 Measurement Number</p> <hr/> <p>Length, area and perimeter</p> <p>Kilometres, metres, centimetres & millimetres Compare & order lengths Estimate lengths Calculate perimeter Calculate area</p>	<p>VC2M5M01 choose appropriate metric units when measuring the length, mass and capacity of objects ...</p> <p>VC2M5M02 solve practical problems involving the perimeter and area of regular and irregular shapes ...</p> <p>VC2M5N08 check and explain the reasonableness of solutions to problems ...</p>		<p>Metric conversions</p> <ul style="list-style-type: none"> Kilometre Conversions Metres and Kilometres <p>Perimeter & area</p> <ul style="list-style-type: none"> Perimeter: Squares and Rectangles Area of Shapes Biggest Shape Equal Areas Area: Squares and Rectangles 	<p>Choose appropriate metric units</p> <ul style="list-style-type: none"> Introducing kilometres Comparing & ordering units of length Selecting appropriate units - length <p>Perimeter & area - practical problems</p> <ul style="list-style-type: none"> Calculating perimeter practical problems Calculating area practical problems 	<p>Measurement: Length LEVEL 3–5</p> <ul style="list-style-type: none"> Divide and measure with rods (DOK 2) <p>LEVEL 4–6</p> <ul style="list-style-type: none"> Lengthy thinking (DOK 2) <p>Measurement: Area LEVEL 3–5</p> <ul style="list-style-type: none"> Make a puppy play area (DOK 2) Farmer's fences (DOK 3) <p>LEVEL 4–6</p> <ul style="list-style-type: none"> Shade a shape (DOK 3) Five and ten, squares and units (DOK 3) 	<p>(Y5-F) Length, Perimeter and Area</p> <ul style="list-style-type: none"> Units of length (pp 1–8) Travelling far (pp 9–16) Perimeter (pp 17–24) Area (pp 25–32)
<p>Unit 5 Statistics</p> <hr/> <p>Data: Representation & interpretation</p> <p>Collect data Validate data Represent data</p>	<p>VC2M5ST01 acquire, validate and represent data for nominal and ordinal categorical and discrete numerical variables to address a question of interest or purpose using software including spreadsheets ...</p> <p>VC2M5ST02 interpret line graphs representing change over time ...</p>		<p>Collect, display & interpret data</p> <ul style="list-style-type: none"> Line Graphs: Interpretation Travel Graphs Stem and Leaf Plots: -Concept Dot Plots Divided Bar Graphs Tally Charts Sector Graphs 	<p>Acquire, validate & represent data</p> <ul style="list-style-type: none"> Conducting surveys or statistical investigations 	<p>Statistics & Data LEVEL 5–7</p> <ul style="list-style-type: none"> New director (DOK 3) 	<p>(Y5-F) Data Representation</p> <ul style="list-style-type: none"> Types of graphs 1 (pp 1–6) Types of graphs 2 (pp 7–11) Types of graphs 3 (pp 12–17) Collecting and analysing data (pp 18–23)








Strand & Topic	Outcomes	New Courses	Activities (Courses)	Skill Quests	Challenges	Ebooks
Unit 1 Number Fractions Compare and order Mixed numbers & improper fractions Equivalent fractions Add & Subtract fractions: Same or related denominators	VC2M5N03 compare and order common unit fractions with the same and related denominators ... VC2M5N05 solve problems involving addition and subtraction of fractions with the same or related denominators ...	Y5 Fractions <ul style="list-style-type: none"> Fractions Equivalence Compare and order fractions Improper fractions and mixed numbers Add fractions Subtract fractions Problem solving with fractions 	Compare & order fractions <ul style="list-style-type: none"> Shading Equivalent Fractions Equivalent Fraction Wall 2 Equivalent Fractions on a Number Line 1 Equivalent Fractions Compare Fractions 1a Compare Fractions 1b Identifying Fractions Beyond 1 Improper to Mixed Mixed to Improper Converting Mixed and Improper Identifying Fractions on a Number Line Mixed and Improper Fractions on a Number Line Add & subtract fractions <ul style="list-style-type: none"> Add: Common Denominator Subtract: Common Denominator Common Denominator Add Like Mixed Numbers Subtract Like Mixed Numbers One Take Fraction Add Subtract Fractions 1 	Compare & order fractions <ul style="list-style-type: none"> Comparing & ordering fractions Comparing & ordering fractions & mixed numbers Using common factors to simplify proper fractions Add & subtract fractions <ul style="list-style-type: none"> Add & subtract proper fractions - same denominator Add & subtract mixed numerals - same denominator Add & subtract fractions - related denominators Add & subtract mixed num - related denominators 	Number & Algebra: Fractions LEVEL 3–5 <ul style="list-style-type: none"> Which is closer to 1? (DOK 2) What fraction is that? (DOK 2) Drinking equivalent fractions (DOK 3) LEVEL 4–6 <ul style="list-style-type: none"> Fractions in uneven partitioned shapes (DOK 2) Fractional relay races (DOK 2) 	(YS-F) Fractions, Decimals and Percentages <ul style="list-style-type: none"> Types of fractions (pp 9–16) Calculating (pp 26–29)
Unit 2 Number Algebra Multiplication and division: Mental strategies Efficient mental strategies Factorising	VC2M5N02 express natural numbers as products of their factors ... VC2M5N06 solve problems involving multiplication of larger numbers by one- or two-digit numbers ... VC2M5N07 solve problems involving division ... VC2M5N08 check and explain the reasonableness of solutions to problems ... VC2M5N09 use mathematical modelling to solve practical problems involving additive and multiplicative situations ...	Y5 Multiplication and Division <ul style="list-style-type: none"> Multiplication strategies Multiples and powers of $10 \times$ Multiples and powers of $10 \div$ Division strategies Y5 Rounding and Estimation <ul style="list-style-type: none"> Rounding Estimation 	Multiply & divide by 2 digits <ul style="list-style-type: none"> Multiply Multiples of 10 Multiply More Multiples of 10 Multiply 2 Digits Area Model Grid Methods 1 Double and Halve to Multiply Mental Methods Multiplication 1 Dividing by 10, 100, 1000 Division Facts 1 Remainders by Arrays Mental Methods Division 1 Mental Methods Division Rounding & estimating <ul style="list-style-type: none"> Estimate Products Estimate Quotients Estimation: Multiply and Divide Estimate Decimal Operations 	Strategies to multiply by 1- or 2-digits <ul style="list-style-type: none"> Multiplication using multiples of 10 Multiplying: rounding, compensating & partitioning Multiplying: doubling, halving & thirding Multiplying using the split method Multiplying using an area model Multiplying by factorising Division strategies incl. remainders <ul style="list-style-type: none"> Dividing by a 1-digit number using partitioning Dividing by a 2-digit number using partitioning Dividing by a 1-digit number using factorising Dividing by a 2-digit number using factorising Estimation & rounding <ul style="list-style-type: none"> Rounding to estimate multiplication & division Estimating with money 	(YS-F) Multiplication and Division <ul style="list-style-type: none"> Mental multiplication strategies (pp 1–10) Mental division strategies (pp 11–19) 	

Strand & Topic	Outcomes	New Courses	Activities (Courses)	Skill Quests	Challenges	Ebooks
Unit 3 Number Algebra <hr/> Algebra Create and use algorithms Inverse operations Fact families Find unknown values	VC2M5N10 follow a mathematical algorithm involving branching and repetition ... VC2M5A01 recognise and explain the connection between multiplication and division as inverse operations ... VC2M5A02 find unknown values in numerical equations involving multiplication and division ...	Y5 Patterns and equivalence - coming soon <ul style="list-style-type: none"> Unknown values +- Are these equivalent? +- Unknown values x÷ Are these equivalent? x÷- Problem solving using equivalence 	Family of facts <ul style="list-style-type: none"> Fact Families: Multiply and Divide Multiplication Turnarounds Missing Numbers: x and ÷ facts Times Tables Multiply 3 single-digit numbers 	Create & use algorithms <ul style="list-style-type: none"> Manipulating numbers using a given rule Designing flowcharts to solve add/sub of fractions Connect multiplication & division <ul style="list-style-type: none"> Inverse relationship - multiplication & division Find unknown values in mult & div <ul style="list-style-type: none"> Finding unknown values - multiplication & division 	Number & Algebra: Whole Number LEVEL 4–6 <ul style="list-style-type: none"> Unknown values in uneven partitioned shapes (DOK 2) Number & Algebra: Equations & Expressions LEVEL 4–6 <ul style="list-style-type: none"> Shape equations (DOK 2) Steps to success (DOK 3) 	(Y5-F) Patterns and Algebra <ul style="list-style-type: none"> Patterns and functions (pp 1–12) Equations and equivalence (pp 13–20) Using equations (pp 21–28)
Unit 4 Number <hr/> Addition and subtraction: Written Written strategies	VC2M5N09 use mathematical modelling to solve practical problems involving additive and multiplicative situations ...	Y5 Addition and Subtraction <ul style="list-style-type: none"> Addition Subtraction Money calculations +- 	Solving practical problems <ul style="list-style-type: none"> Columns that Add Add Two 2-Digit Numbers Add 3-Digit Numbers Columns that Subtract Subtract Numbers 			(Y5-F) Addition and Subtraction <ul style="list-style-type: none"> Written methods (pp 17–25) (Y5-F) Fractions, Decimals and Percentages <ul style="list-style-type: none"> Calculating (pp 30–33)
Unit 5 Space <hr/> 2D space and 3D objects Connect 2D shapes with 3D objects Connect & create nets Sketch 3D objects	VC2M5SP01 connect objects to their nets and build objects from their nets using spatial and geometric reasoning		Shapes & solids <ul style="list-style-type: none"> What Pyramid am I? What Prism am I? Prisms and Pyramids 	Connect objects to nets <ul style="list-style-type: none"> Connecting prisms & pyramids with their nets Connecting 3D objects with their nets 	Geometry: 3D Shapes LEVEL 4–6 <ul style="list-style-type: none"> Notty nets (DOK 2) Looking at faces, edges and vertices (DOK 3) 	(Y5-F) Geometry <ul style="list-style-type: none"> 3D shapes (pp 25–34)

Strand & Topic	Outcomes	New Courses	Activities (Courses)	Skill Quests	Challenges	Ebooks
Unit 1 Number Fractions, decimals, and percentages Connect fraction, decimal and percentage equivalents Represent remainders as fractions and decimals Problem solving	VC2M5N01 interpret, compare and order numbers with more than 2 decimal places ... VC2M5N03 compare and order common unit fractions with the same and related denominators ... VC2M5N04 recognise that 100% represents the complete ... VC2M5N07 solve problems involving division ...	Y5 Percentages <ul style="list-style-type: none"> Percentages Compare percentages Fractions and percentages Decimals, fractions and percentages 	Fractions decimals & percentages <ul style="list-style-type: none"> Modelling Percentages Fractions to Decimals Percents and Decimals Common Fractions as Percentages (AU) Decimal Order Comparing Decimals 	Fractions, decimals & percentages <ul style="list-style-type: none"> Introducing percentages Connecting percentages & decimals Connecting percentages & fractions Relationship - percentages, decimals & fractions 		(YS-F) Fractions, Decimals and Percentages <ul style="list-style-type: none"> Fractions, decimals and percentages (pp 17–25)
Unit 2 Number Algebra Multiplication and division: Written strategies and solving problems Multiplication algorithm Contracted division Problem solving	VC2M5N02 express natural numbers as products of their factors ... VC2M5N06 solve problems involving multiplication of larger numbers ... VC2M5N07 solve problems involving division ... VC2M5N09 use mathematical modelling to solve practical problems ...	Y5 Multiplication and Division <ul style="list-style-type: none"> Multiply by one digit Multiply by two digits Division Exploring remainders Division with remainders 	Solving practical problems <ul style="list-style-type: none"> Multiply: 1-Digit Number Multiply: 2-Digit by 1-Digit Divide: 1-Digit Divisor 1 Bar model $\times \div$ Problems: Times and Divide 	Strategies to multiply by 1- or 2-digits <ul style="list-style-type: none"> Multiplying using expanded algorithm Multiplying using contracted algorithm Multiplying using extended form of algorithm Division strategies incl. remainders <ul style="list-style-type: none"> Extended division - no remainders or zeros Extended division with remainders Extended division with & without remainders Contracted division - no remainders or zeros Contracted division - no remainders Contracted division - with & without remainders Dividing by 2-digit numbers - formal algorithms Multiply & divide practical problems <ul style="list-style-type: none"> Multiplication & division word problems Expressing word problems as equations mult/div Solving multi-step mult/div word problems Solving mult & div money problems 		(YS-F) Multiplication and Division <ul style="list-style-type: none"> Written methods (pp 20–28) Puzzles and investigations (pp 29–32)
Unit 3 Probability Statistics Chance and data List outcomes Conduct chance experiments Record results Compare outcomes Estimate likelihoods	VC2M5P01 list the possible outcomes of chance experiments ... VC2M5P02 conduct repeated chance experiments ... VC2M5ST01 acquire, validate and represent data ... VC2M5ST03 plan and conduct statistical investigations ...		Probability <ul style="list-style-type: none"> What are the Chances? Chance Gauge Introductory probability Fair Games 	Outcomes of chance experiments <ul style="list-style-type: none"> Investigating equally likely outcomes Exploring fair & unfair chance experiments 	Chance & Probability LEVEL 4–6 <ul style="list-style-type: none"> Ordering probabilities (DOK 3) 	(YS-F) Chance and Probability <ul style="list-style-type: none"> Chance and Probability (pp 1–10)

Strand & Topic	Outcomes	New Courses	Activities (Courses)	Skill Quests	Challenges	Ebooks
<p>Unit 4 Measurement Space</p> <hr/> <p>Angles and 2D shape</p> <hr/> <p>Measure angles Estimate angles Classify angles Translations, reflections & rotations Symmetry</p>	<p>VC2M5M04 estimate, construct and measure angles in degrees, using appropriate tools, including a protractor, and relate these measures to angle names</p> <p>VC2M5SP03 describe and perform translations, reflections and rotations of shapes, using dynamic geometry software where appropriate ...</p>		<p>Angles</p> <ul style="list-style-type: none"> Classifying Angles Measuring Angles Estimating Angles <p>Transformations</p> <ul style="list-style-type: none"> Flip, Slide, Turn Transformations Rotational Symmetry 	<p>Estimate, construct & measure angles</p> <ul style="list-style-type: none"> Identifying, estimating & measuring angles Classifying & constructing angles <p>Identify & describe transformations</p> <ul style="list-style-type: none"> Identifying & describing transformations 	<p>Geometry: Angles LEVEL 3–5</p> <ul style="list-style-type: none"> Estimating angle measures (DOK 3) <p>LEVEL 4–6</p> <ul style="list-style-type: none"> Angle estimation (DOK 3) <p>Geometry: Symmetry, Transformation & Location LEVEL 4–6</p> <ul style="list-style-type: none"> Tessellations (DOK 3) 	<p>(YS-F) Geometry</p> <ul style="list-style-type: none"> Lines and angles (pp 1–6) 2D shapes (pp 7–15) Transformation, tessellation and symmetry (pp 16–24)
<p>Unit 5 Measurement Number</p> <hr/> <p>Capacity and mass</p> <hr/> <p>Kilolitres, litres & millilitres Tonnes, kilograms & grams Compare & order Estimate Problem solving</p>	<p>VC2M5M01 choose appropriate metric units when measuring the length, mass and capacity of objects; use smaller units or a combination of units to obtain a more accurate measure</p> <p>VC2M5N01 interpret, compare and order numbers with more than 2 decimal places, including numbers greater than one, using place value understanding; represent these on a number line</p>		<p>Metric conversions</p> <ul style="list-style-type: none"> Millilitres and Litres Litre Conversions Kilogram Conversions Grams and Kilograms 	<p>Choose appropriate metric units</p> <ul style="list-style-type: none"> Comparing & ordering units of mass Selecting appropriate units - mass Selecting appropriate units - capacity 	<p>Measurement: Volume & Capacity LEVEL 3–5</p> <ul style="list-style-type: none"> Water water everywhere (DOK 3) <p>Measurement: Mass LEVEL 4–6</p> <ul style="list-style-type: none"> Maze of masses (DOK 3) 	<p>(YS-F) Volume, Capacity and Mass</p> <ul style="list-style-type: none"> Volume and capacity (pp 1–2) Mass (pp 9–16)

Strand & Topic	Outcomes	New Courses	Activities (Courses)	Skill Quests	Challenges	Ebooks
Unit 1 Number Algebra <hr/> Number and operations review	VC2M5N02 express natural numbers ... VC2M5N05 solve problems involving addition and subtraction ... VC2M5N06 solve problems involving multiplication ... VC2M5N07 solve problems involving division ... VC2M5N09 use mathematical modelling to solve practical problems ...	Y5 Addition and Subtraction • Problem-solving with +− Y5 Multiplication and Division • Problem solving with ×÷	 Review earlier content	All operations practical problems • Express equations as word problems all operations	 Review earlier content	 Review earlier content
Unit 2 Statistics <hr/> Data: Investigation and evaluation Interpreting data displays Data distributions Mode Misleading diagrams Evaluate statements about displays	VC2M5ST01 acquire, validate and represent data for nominal and ordinal categorical and discrete numerical variables ... VC2M5ST02 interpret line graphs representing change over time ...		Collect, display & interpret data • Mode • Mode from Stem and Leaf Plot • Mode from Frequency Table • Grouping data and modal class	Interpret line graphs • Interpreting line graphs Understand data distributions • Understanding & calculating the mode • Introducing the shape of data distribution	Statistics and Data LEVEL 4–6 • Rugby modal mayhem (DOK 2) • Leap to the mode (DOK 2) • Discover the digits (DOK 2)	(YS-F) Data Representation • Data investigations (pp 24–28)
Unit 3 Measurement <hr/> Time and position Read and represent 12- & 24-hour time Convert times Use timetables Grid coordinate systems Directional language	VC2M5M03 compare 12- and 24-hour time systems and solve practical problems involving the conversion between them VC2M5SP02 construct a grid coordinate system that uses coordinates to locate positions within a space; use coordinates and directional language to describe position and movement		Time conversions & problems • Time Conversions: Whole Number 1 • Time Conversions: Whole Number 2 • Elapsed Time • 24 Hour Time • Using Timetables Space & shape • Map Coordinates • Coordinate Graphs: 1st Quadrant • More Directions!	Use 24-hour time • Using 24-hour notation • Using 24-hour time in timetables Use coordinates in a grid system • Working with grid referenced maps • Using Cartesian coordinate system - first quadrant • Using landmarks & directional language	Measurement: Time LEVEL 3–5 • The mysteries of time (DOK 2) • Puppy-sitting (DOK 3) LEVEL 4–6 • 24-hour train time (DOK 2) • Ordering times (DOK 2) • Time to explore 4 (DOK 3) Geometry: Symmetry, Transformation & Location LEVEL 3–5 • Routes on a map (DOK 3) LEVEL 4–6 • A journey back in time (DOK 2) • Which way? (DOK 3) • Island towns (DOK 3)	(YS-F) Time • Measuring time (pp 1–8) • Calculating time (pp 9–14) • Timetables (pp 15–20)

Strand & Topic	Outcomes	New Courses	Activities (Courses)	Skill Quests	Challenges	Ebooks
Unit 4 Measurement Measurement applications Choose appropriate units Use measurement in everyday situations Problem solving Area and perimeter applications	VC2M5M01 choose appropriate metric units when measuring the length, mass and capacity of objects ... VC2M5M02 solve practical problems involving the perimeter and area of regular and irregular shapes ... VC2M5M03 compare 12- and 24-hour time systems and solve practical problems ...		 Classroom directed	Choose appropriate metric units • Recognising suitable metric units - all	 Classroom directed	 Classroom directed
Unit 5 Space Space review Review transformations Tessellation patterns Review Cartesian plane	VC2M5SP02 construct a grid coordinate system ... VC2M5SP03 describe and perform translations, reflections and rotations of shapes, using dynamic geometry software where appropriate ...		 Review earlier content	 Review earlier content	 Review earlier content	 Review earlier content

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