Year 6 Australian Curriculum v8.4			Year 6 Australian Curriculum v9			New Courses: Units of Work	Activities (Courses): Topics	Skill Quests
Strand	Content Descriptions	Code	Strand	Outcomes	Code	⚠NEW	Australian Curriculum v9 Yr 06	
Number	investigate everyday situations that use integers. Locate and represent these numbers on a number line	ACMNA124	Number	recognise situations, including financial contexts, that use integers; locate and represent integers on a number line and as coordinates on the Cartesian plane	AC9M6N01	Y6 Integers	Introducing Integers	Understand integers
	introduce the Cartesian coordinate system using all four quadrants	ACMMG143						
	identify and describe properties of prime, composite, square and triangular numbers	ACMNA122		identify and describe the properties of prime, composite and square numbers and use these properties to solve problems and simplify calculations	AC9M6N02		Multiples, factors, primes & composites	Prime, composite & square numbers
	compare fractions with related denominators and locate and represent them on a number line	ACMNA125		apply knowledge of equivalence to compare, order and represent common fractions including halves, thirds and quarters on the same number line and justify their order	AC9M6N03	Y6 Fractions Y6 Percentages	Equivalent fractions	Compare & order common fractions
	add and subtract decimals, with and without digital technologies, and use estimation and rounding to check the reasonableness of answers	ACMNA128		apply knowledge of place value to add and subtract decimals, using digital tools where appropriate; use estimation and rounding to check the reasonableness of answers	AC9M6N04	Y6 Decimals	Add/subtract decimal and fractions	Add/sub decimals – mental strategies Add/sub decimals – digital technologies Add/sub decimals – written method Add/sub decimals – estimating
	solve problems involving addition and subtraction of fractions with the same or related denominators	ACMNA126		solve problems involving addition and subtraction of fractions using knowledge of equivalent fractions	AC9M6N05	Y6 Fractions	Add/subtract decimal and fractions	Add & subtract proper fractions Add & subtract mixed numerals
	make connections between equivalent fractions, decimals and percentages ➡ MOVED TO Y5	ACMNA131						
	multiply decimals by whole numbers and perform divisions by nonzero whole numbers where the results are terminating decimals, with and without digital technologies	ACMNA129		multiply and divide decimals by multiples of powers of 10 without a calculator, applying knowledge of place value and proficiency with multiplication facts; using estimation and rounding to check the reasonableness of answers	AC9M6N06	Y6 Decimals	Fractions, decimals & percentages	Multiply/divide decimals by powers of 10
	multiply and divide decimals by powers of 10	ACMNA130						
	find a simple fraction of a quantity where the result is a whole number, with and without digital technologies	ACMNA127		solve problems that require finding a familiar fraction, decimal or percentage of a quantity, including percentage discounts, choosing efficient calculation strategies and using digital tools where appropriate	AC9M6N07	Y6 Fractions Y6 Percentages	Fractions, decimals & percentages	Find a fraction of a quantity Calculate percentages
	make connections between equivalent fractions, decimals and percentages ➡ MOVED TO Y5	ACMNA131						
	investigate and calculate percentage discounts of 10%, 25% and 50% on sale items, with and without digital technologies	ACMNA132						

Year 6 Australian Curriculum v8.4			Year 6 Australian Curriculum v9			New Courses: Units of Work	Activities (Courses): Topics	Skill Quests
Strand	Content Descriptions	Code	Strand	Outcomes	Code	⚠ NEW		Australian Curriculum v9 Yr 06
Number			Number	approximate numerical solutions to problems involving rational numbers and percentages, including financial contexts, using appropriate estimation strategies ⚠ NEW	AC9M6N08		Add/subtract decimal and fractions / Fractions, decimals & percentages	Rational numbers & percentages
	select and apply efficient mental and written strategies and appropriate digital technologies to solve problems involving all four operations with whole numbers	ACMNA123		use mathematical modelling to solve practical problems involving natural and rational numbers and percentages, including in financial contexts; formulate the problems, choosing operations and efficient calculation strategies, and using digital tools where appropriate; interpret and communicate solutions in terms of the situation, justifying the choices made	AC9M6N09	Y6 Fractions / Y6 Percentages / Y6 Decimals	Fractions, decimals & percentages	Solve practical percentage problems
Algebra	continue and create sequences involving whole numbers, fractions and decimals. Describe the rule used to create the sequence	ACMNA133	Algebra	recognise and use rules that generate visually growing patterns and number patterns involving rational numbers	AC9M6A01		Algebra patterns equations & rules	Recognise & use rules for patterns
	explore the use of brackets and order of operations to write number sentences	ACMNA134		find unknown values in numerical equations involving brackets and combinations of arithmetic operations, using the properties of numbers and operations	AC9M6A02		Algebra patterns equations & rules	Understand order of operations
				create and use algorithms involving a sequence of steps and decisions that use rules to generate sets of numbers; identify, interpret and explain emerging patterns ⚠ NEW	AC9M6A03			Design flowcharts to solve problems / Use rules & algorithms
Measurement	connect decimal representations to the metric system	ACMMG135	Measurement	convert between common metric units of length, mass and capacity; choose and use decimal representations of metric measurements relevant to the context of a problem	AC9M6M01		Converting metric units	Connect decimals to the metric system / Convert metric units of measurement
	convert between common metric units of length, mass and capacity	ACMMG136						
	solve problems involving the comparison of lengths and areas using appropriate units	ACMMG137		establish the formula for the area of a rectangle and use it to solve practical problems	AC9M6M02		Area and angle	Use formula for area of a rectangle
	interpret and use timetables	ACMMG139		interpret and use timetables and itineraries to plan activities and determine the duration of events and journeys	AC9M6M03			Interpret & use timetables
	investigate, with and without digital technologies, angles on a straight line, angles at a point and vertically opposite angles. Use results to find unknown angles	ACMMG141		identify the relationships between angles on a straight line, angles at a point and vertically opposite angles; use these to determine unknown angles, communicating reasoning	AC9M6M04		Area and angle	Understand angle properties
	connect volume and capacity and their units of measurement (➡ MOVED TO Y8)	ACMMG138						

Year 6 Australian Curriculum v8.4			Year 6 Australian Curriculum v9			New Courses: Units of Work	Activities (Courses): Topics	Skill Quests
Strand	**Content Descriptions**	**Code**	**Strand**	**Outcomes**	**Code**	**⚠ NEW**	**Australian Curriculum v9 Yr 06**	
Geometry			**Space**	compare the parallel cross-sections of objects and recognise their relationships to right prisms ⚠ NEW	AC9M6SP01			Investigate cross-section
	introduce the Cartesian coordinate system using all four quadrants	ACMMG143		locate points in the 4 quadrants of a Cartesian plane; describe changes to the coordinates when a point is moved to a different position in the plane	AC9M6SP02		Shape and space	Points on the Cartesian plane
	investigate combinations of translations, reflections and rotations, with and without the use of digital technologies	ACMMG142		recognise and use combinations of transformations to create tessellations and other geometric patterns, using dynamic geometric software where appropriate	AC9M6SP03		Shape and space	Use combinations of transformations
	construct simple prisms and pyramids ⊖ REMOVED	ACMMG140						
Statistics	interpret and compare a range of data displays, including side-by side column graphs for two categorical variables	ACMSP147	**Statistics**	interpret and compare data sets for ordinal and nominal categorical, discrete and continuous numerical variables using comparative displays or visualisations and digital tools; compare distributions in terms of mode, range and shape	AC9M6ST01		Mode & range	Interpret, compare & describe data sets Compare mode, range & shape
	interpret secondary data presented in digital media and elsewhere	ACMSP148		identify statistically informed arguments presented in traditional and digital media; discuss and critique methods, data representations and conclusions	AC9M6ST02			Interpret & evaluate secondary data
				plan and conduct statistical investigations by posing and refining questions or identifying a problem and collecting relevant data; analyse and interpret the data and communicate findings within the context of the investigation	AC9M6ST03			
Probability	describe probabilities using fractions, decimals and percentages	ACMSP144	**Probability**	recognise that probabilities lie on numerical scales of 0 – 1 or 0% – 100% and use estimation to assign probabilities that events occur in a given context, using common fractions, percentages and decimals	AC9M6P01		Probability	Assign probabilities
	conduct chance experiments with both small and large numbers of trials using appropriate digital technologies	ACMSP145		conduct repeated chance experiments and run simulations with an increasing number of trials using digital tools; compare observations with expected results and discuss the effect on variation of increasing the number of trials	AC9M6P02			Conduct chance experiments
	compare observed frequencies across experiments with expected frequencies	ACMSP146						

	Term one	Term two	Term three	Term four
Unit 1	**Number** **Space** **Integers and number properties** • Integers on a number line • Integers on the cartesian plane	**Number** **Algebra** **Patterns and algebra** • Generate number patterns • Find unknown values • Create and use algorithms	**Number** **Operations, including money** • Order of operations • Mixed operations • Add & subtract decimals: Problem solving • Multiply & divide decimals: Problem solving • Budgeting	**Number** **Algebra** **Number and operations review** Review earlier content
Unit 2	**Number** **Addition and subtraction** • Add and subtract decimals • Mental, written and digital strategies • Problem solving	**Number** **Fractions, decimals and percentages** • Find a fraction, decimal or percentage of a quantity • Percentage discounts • Round and estimate • Problem solving	**Measurement** **Angles** • Angles within shapes • Angles on a straight line • Angles at a point • Vertically opposite angles • Determine unknown angles	**Space** **3D objects** • Observe and draw shapes • Compare cross-sections • Right prisms • Connect objects to their nets
Unit 3	**Number** **Multiplication and division: Whole numbers** • Prime, composite & square numbers • Multiply & divide whole numbers • Mental & written strategies	**Number** **Algebra** **Multiplication and division: Decimals** • Multiply & divide decimals • Powers of 10 • Estimating	**Measurement** **Capacity and mass** • Convert measurements • Decimal representations • Problem solving	**Number** **Space** **Cartesian plane and 2D shapes** • Locate points on Cartesian plane • Identify scales • Draw lines and polygons • Positional data
Unit 4	**Number** **Fractions** • Compare, order & represent common fractions • Equivalent fractions • Add and subtract fractions	**Space** **2D shapes** • Properties of 2D shapes • Classification • Symmetry • Transformations • Tessellations	**Measurement** **Time** • Interpret and use timetables and itineraries • Duration of events	**Statistics** **Data: Interpretation** • Statistically informed arguments • Plan and conduct statistical investigations • Compare distributions
Unit 5	**Statistics** **Data: Representation** • Collect data • Validate data • Represent data • Compare data sets • Data visualisations	**Measurement** **Length, perimeter and area** • Convert units of length • Decimal representations of length • Area formula • Perimeter and area connections • Problem solving	**Probability** **Statistics** **Chance and data** • Represent probabilities numerically • Estimate and assign probabilities • List outcomes • Conduct chance experiments • Run simulations • Record results • Compare observations with expected results	**Measurement** **Measurement review and applications** • Choose appropriate units • Use measurement in everyday situations

Strand	Outcomes and content descriptions	Located
Number	**AC9M6N01** recognise situations, including financial contexts, that use integers; locate and represent integers on a number line and as coordinates on the Cartesian plane	T1 U1 T2 U1 T4 U3
	AC9M6N02 identify and describe the properties of prime, composite and square numbers and use these properties to solve problems and simplify calculations	T1 U3 T2 U1
	AC9M6N03 apply knowledge of equivalence to compare, order and represent common fractions including halves, thirds and quarters on the same number line and justify their order	T1 U4 T2 U2
	AC9M6N04 apply knowledge of place value to add and subtract decimals, using digital tools where appropriate; use estimation and rounding to check the reasonableness of answers	T1 U2 T2 U2 T4 U1
	AC9M6N05 solve problems involving addition and subtraction of fractions using knowledge of equivalent fractions	T1 U4 T2 U2 T4 U1
	AC9M6N06 multiply and divide decimals by multiples of powers of 10 without a calculator, applying knowledge of place value and proficiency with multiplication facts; using estimation and rounding to check the reasonableness of answers	T2 U3 T4 U1
	AC9M6N07 solve problems that require finding a familiar fraction, decimal or percentage of a quantity, including percentage discounts, choosing efficient calculation strategies and using digital tools where appropriate	T1 U4 T2 U2
	AC9M6N08 approximate numerical solutions to problems involving rational numbers and percentages, including financial contexts, using appropriate estimation strategies	T2 U2, U3
	AC9M6N09 use mathematical modelling to solve practical problems, involving rational numbers and percentages, including in financial contexts; formulate the problems, choosing operations and efficient calculation strategies, and using digital tools where appropriate; interpret and communicate solutions in terms of the situation, justifying the choices made	T1 U2, U3, U4 T2 U1, U2, U3 T3 U1 T4 U1
Algebra	**AC9M6A01** recognise and use rules that generate visually growing patterns and number patterns involving rational numbers	T2 U1
	AC9M6A02 find unknown values in numerical equations involving brackets and combinations of arithmetic operations, using the properties of numbers and operations	T2 U1 T3 U1
	AC9M6A03 create and use algorithms involving a sequence of steps and decisions that use rules to generate sets of numbers; identify, interpret and explain emerging patterns	T2 U1

Strand	Outcomes and content descriptions	Located
Measurement	**AC9M6M01** convert between common metric units of length, mass and capacity; choose and use decimal representations of metric measurements relevant to the context of a problem	T2 U5 T3 U3 T4 U5
	AC9M6M02 establish the formula for the area of a rectangle and use it to solve practical problems	T2 U5 T4 U5
	AC9M6M03 interpret and use timetables and itineraries to plan activities and determine the duration of events and journeys	T3 U4 T4 U5
	AC9M6M04 identify the relationships between angles on a straight line, angles at a point and vertically opposite angles; use these to determine unknown angles, communicating reasoning	T3 U2
Space	**AC9M6SP01** compare the parallel cross-sections of objects and recognise their relationships to right prisms	T4 U2
	AC9M6SP02 locate points in the 4 quadrants of a Cartesian plane; describe changes to the coordinates when a point is moved to a different position in the plane	T1 U1 T2 U4 T4 U3
	AC9M6SP03 recognise and use combinations of transformations to create tessellations and other geometric patterns, using dynamic geometric software where appropriate	T2 U4
Statistics	**AC9M6ST01** interpret and compare data sets for ordinal and nominal categorical, discrete and continuous numerical variables using comparative displays or visualisations and digital tools; compare distributions in terms of mode, range and shape	T1 U5 T3 U5 T4 U4
	AC9M6ST02 identify statistically informed arguments presented in traditional and digital media; discuss and critique methods, data representations and conclusions	T1 U5 T4 U4
	AC9M6ST03 plan and conduct statistical investigations by posing and refining questions or identifying a problem and collecting relevant data; analyse and interpret the data and communicate findings within the context of the investigation	T3 U5
Probability	**AC9M6P01** recognise that probabilities lie on numerical scales of 0 – 1 or 0% – 100% and use estimation to assign probabilities that events occur in a given context, using common fractions, percentages and decimals	T3 U5
	AC9M6P02 conduct repeated chance experiments and run simulations with an increasing number of trials using digital tools; compare observations with expected results and discuss the effect on variation of increasing the number of trials	T3 U5

Strand & Topic	Outcomes	New Courses	Activities (Courses)	Skill Quests	Challenges	Ebooks
Unit 1 Number Space **Integers and number properties** Integers on a number line Integers on the cartesian plane	**AC9M6N01** recognise situations, including financial contexts, that use integers … **AC9M6SP02** locate points in the 4 quadrants of a Cartesian plane …	**Y6 Integers** • Integers on the number Line • Integers on the cartesian Plane • Compare and order integers • Integers in context	**Introducing Integers** • Integers on a Number Line • Ordering Integers (Number Line) • Comparing Integers (<, =, >) • What's the Temperature (Celsius)?	**Understand integers** • Recognising situations that use integers • Locating & representing integers on a number line • Introducing the Cartesian plane **Points on the Cartesian plane** • Locating points on the Cartesian plane **Prime, composite & square numbers** • Introducing prime & composite numbers • Introducing square numbers		(Y7-H) **Directed Numbers** • Plotting on number lines (p 1) • Opposite directions- negative numbers (p 2) • Extending the number line (p 3) (Y7-H) **Directed Numbers (AC Ready)** • How does it work? (pp 1-13)
Unit 2 Number **Addition and subtraction** Add and subtract decimals Mental, written and digital strategies Problem solving	**AC9M6N04** apply knowledge of place value to add and subtract decimals, using digital tools … **AC9M6N09** use mathematical modelling to solve practical problems …	**Y6 Decimals** • Decimals and place value • Rounding decimals • Decimals and the number Line • Compare and order decimals • Add decimals • Subtract decimals • Addition strategies with decimals • Subtraction strategies with decimals	**Add/subtract decimal and fractions** • Decimal Complements • Adding Decimals • Subtract Decimals 1 • Estimate Decimal Sums 1 • Estimate Decimal Differences 1 • Estimate Decimal Sums 2 • Estimate Decimal Differences 2	**Add/sub decimals - mental strategies** • Adding decimals using mental strategies • Subtracting decimals using mental strategies **Add/sub decimals – estimating** • Estimating sums & differences of decimals **Add/sub decimals - written method** • Adding decimals using written method • Subtracting decimals using written method **Add/sub decimals - digital technologies** • Adding decimals using digital technologies • Subtracting decimals using digital technologies	**Number & Algebra: Addition & Subtraction** LEVEL 5–7 • Club money jar (DOK 3) • Square number puzzle (DOK 3) • Ropes and mazes (DOK 4)	(Y6-G) **Addition and Subtraction** • Written methods (pp 20–28)
Unit 3 Number **Multiplication and division: Whole numbers** Prime, composite & square numbers Multiply & divide whole numbers Mental & written strategies	**AC9M6N02** identify and describe the properties of prime, composite and square numbers … **AC9M6N09** use mathematical modelling to solve practical problems, involving rational numbers and percentages …	Coming soon	**Multiples, factors, primes & composites** • Prime or Composite? • Multiples • Multiples of • Highest Common Factor • Lowest Common Multiple		**Number & Algebra: Multiplication & Division** LEVEL 5–7 • True or false? (DOK 2) LEVEL 6–8 • Many ants make light work (DOK 2) • Orbiting lowest common multiples (DOK 2)	(Y7-H) **Special Numbers, Factors and Multiples** • Odd, even, prime and composite numbers (p 1) • Square numbers (p 3) (Y6-G) **Multiplication and Division** • Mental multiplication strategies (pp 1–6) • Mental division strategies (pp 7–12) • Written methods (pp 13–18) • Puzzles and investigations (pp 19–24)

Strand & Topic	Outcomes	New Courses	Activities (Courses)	Skill Quests	Challenges	Ebooks
Unit 4 Number **Fractions** Compare, order & represent common fractions Equivalent fractions Add and subtract fractions	**AC9M6N03** apply knowledge of equivalence to compare, order and represent common fractions … **AC9M6N05** solve problems involving addition and subtraction of fractions … **AC9M6N07** solve problems that require finding a familiar fraction, decimal or percentage of a quantity … **AC9M6N09** use mathematical modelling to solve practical problems …	**Y6 Fractions** • Represent fractions • Types of fractions • Compare and order fractions with like denominators • Equivalent fractions • Simplifying fractions • Compare and order fractions • Add and subtract fractions • Add related fractions • Subtract related fractions • Problem-solving with fractions	**Equivalent fractions** • Equivalent Fraction Wall 1 • Equivalent Fraction Wall 2 • Shading Equivalent Fractions • Identifying Fractions on a Number Line • Mixed and Improper Fractions on a Number Line • Equivalent Fractions • Comparing Fractions 1 • Compare Fractions 1a • Compare Fractions 1b **Add/subtract decimal and fractions** • Add Subtract Fractions 1 • Common Denominator • Add: Common Denominator • Subtract: Common Denominator • One Take Fraction • Add Like Mixed Numbers • Subtract Like Mixed Numbers	**Compare & order common fractions** • Recognise, compare & represent common fractions • Comparing common fractions on a number line **Add & subtract proper fractions** • Adding fractions with related denominators • Subtracting fractions with related denominators • Add & subtract fractions - related denominators **Add & subtract mixed numerals** • Adding fractions & mixed numerals • Subtracting fractions & mixed numerals	**Number & Algebra: Fractions** LEVEL 3–5 • Running a fraction of the race (DOK 2) LEVEL 4–6 • It's a piece of pie! (DOK 2) • A yarn about simple fractions (DOK 2)	(Y6-G) **Fractions, Decimals and Percentages** • Fractions (pp 1–11) • Calculating (pp 28–30)
Unit 5 Statistics **Data: Representation** Collect data Validate data Represent data Compare data sets Data visualisations	**AC9M6ST01** interpret and compare data sets for ordinal and nominal categorical, discrete and continuous numerical variables using comparative displays or visualisations and digital tools … **AC9M6ST02** identify statistically informed arguments presented in traditional and digital media …	Coming soon		**Interpret, compare & describe data sets** • Two-way tables • Side-by-side column graphs • Comparing & selecting bivariate data displays	**Statistics & Data:** LEVEL 5–7 • World rankings (DOK 4) • Lake Scaley fish (DOK 3)	(Y6-G) **Data Representation** • Types of graphs 1 (pp 1–6) • Types of graphs 2 (pp 10–11) • Collecting and analysing data (pp 20–21)

Strand & Topic	Outcomes	New Courses	Activities (Courses)	Skill Quests	Challenges	Ebooks
Unit 1 Number Algebra **Patterns and algebra** Generate number patterns Find unknown values Create and use algorithms	**AC9M6N01** recognise situations, including financial contexts, that use integers … **AC9M6N02** identify and describe the properties of prime, composite and square … **AC9M6N09** use mathematical modelling to solve practical problems … **AC9M6A01** recognise and use rules that generate visually growing patterns … **AC9M6A02** find unknown values in numerical equations involving brackets … **AC9M6A03** create and use algorithms involving a sequence of steps and decisions …	Coming soon	**Algebra patterns equations & rules** • Increasing Patterns • Describing Patterns • Find the Pattern Rule • Table of Values • Pattern Rules and Tables • Number Sequences Up to 1 Million • Writing Algebraic Expressions • Missing Numbers: Variables • Simple Substitution	**Recognise & use rules for patterns** • Continuing & creating number sequences **Design flowcharts to solve problems** • Designing flowcharts to solve problems **Use rules & algorithms** • Manipulating numbers using a given rule • Creating algorithms for sets	**Number & Algebra: Equations & Expressions** LEVEL 4–6 • Writing & interpreting (DOK 3) • Solving unknowns (DOK 3) • Pattern rules (DOK 3) • Fraction and decimal addition patterns (DOK 2) • Island hopper (DOK 4) LEVEL 5–7 • Keep it balanced (DOK 3)	(Y6-G) **Patterns and Algebra** • Patterns and functions (pp 1–17) • Algebraic thinking (pp 18–25) • Solving equations (pp 26–33) • Properties of arithmetic (pp 36–41)
Unit 2 Number **Fractions, decimals and percentages** Find a fraction, decimal or percentage of a quantity Percentage discounts Round and estimate Problem solving	**AC9M6N03** apply knowledge of equivalence to compare, order and represent common fractions … **AC9M6N04** apply knowledge of place value to add and subtract decimals … **AC9M6N05** solve problems involving addition and subtraction of fractions … **AC9M6N07** solve problems that require finding a familiar fraction … **AC9M6N08** approximate numerical solutions to problems involving rational numbers … **AC9M6N09** use mathematical modelling to solve practical problems …	**Y6 Fractions** • Find a fraction of an amount • Problem-solving fractions of amounts **Y6 Percentages** • Percentages • Fractions, decimals, percentages • Percentages to fractions • Fractions to percentages • Percentages to decimals • Decimals to percentages • Decimals to fractions • Fractions to decimals • Expressing as a percentage • Percentages of an amount • Discounts • Sale price	**Fractions, decimals & percentages** • Fraction Wall Labelling 2 • Fractions to Decimals • Decimals to Fractions 1 • Percentage to Fraction • Decimals to percentages • Common Fractions as Percentages (AU) • Fractions to Percentages (Non-Calculator) • Percents and Decimals • Match Decimals and Percentages • Calculating Percentages (Mental) • Money Problems: Four Operations • Time Conversions: Simple Fractions • Time Conversions: Simple Decimals • Fraction Word Problems • Percentage Word Problems • Model Fractions to Multiply • Estimate Products with Fractions	**Find a fraction of a quantity** • Finding a fraction of a quantity **Calculate percentages** • Calculating percentages **Rational numbers & percentages** • Estimating solutions **Solve practical percentage problems** • Solving practical percentage problems	**Number & Algebra: Fractions** LEVEL 4–6 • The case of the missing superhero capes (DOK 2) • Thunder Radio competition winners (DOK 2) **Number & Algebra: Percentages** LEVEL 5–7 • Simply equal (DOK 2) **Number & Algebra: Money** LEVEL 5–7 • Discount that car (DOK 4)	(Y6-G) **Fractions, Decimals and Percentages** • Topic 2 – Decimal fractions (pp 12–20) • Fractions of an amount (pp 21–27)

Strand & Topic	Outcomes	New Courses	Activities (Courses)	Skill Quests	Challenges	Ebooks
Unit 3 Number **Multiplication and division: Decimals** Multiply & divide decimals Powers of 10 Estimate	**AC9M6N06** multiply and divide decimals by multiples of powers of 10 without a calculator … **AC9M6N08** approximate numerical solutions to problems involving rational numbers and percentages … **AC9M6N09** use mathematical modelling to solve practical problems …	**Y6 Decimals** • Multiply decimals by powers of 10 • Multiply decimals by whole numbers • Divide decimals by powers of 10 • Divide decimals by whole numbers	**Fractions, decimals & percentages** • Multiply Decimals: 10, 100, 1000 • Divide Decimals: 10, 100, 1000 • Estimate Decimal Operations	**Multiply/divide decimals by powers of 10** • Multiplying decimals by powers of 10 • Dividing decimals by powers of 10 • Using estimation		(Y6-G) **Fractions, Decimals and Percentages** • Calculating (pp 37–38)
Unit 4 Space **2D shapes** Properties of 2D shapes Classification Symmetry Transformations Tessellations	**AC9M6SP02** locate points in the 4 quadrants of a Cartesian plane … **AC9M6SP03** recognise and use combinations of transformations to create tessellations and other geometric patterns …	Coming soon		**Use combinations of transformations** • Recognising tesselations • Identifying a sequence of 2 transformations	**Geometry: 2D Shapes** LEVEL 4–6 • Tricksy triangles • Relating 2D shapes	(Y6-G) **Geometry** • 2D shapes (pp 7–15) • Transformation, tessellation and symmetry (pp 16–24)
Unit 5 Measurement **Length, perimeter and area** Convert units of length Decimal representations of length Area formula Perimeter and area connections Problem solving	**AC9M6M01** convert between common metric units of length, mass and capacity … **AC9M6M02** establish the formula for the area of a rectangle and use it to solve practical problems	Coming soon	**Converting metric units** • Centimetres and Metres • Metres and Kilometres **Area and angle** • Area: Squares and Rectangles	**Convert metric units of measurement** • Converting metric units of length **Use formula for area of a rectangle** • Using a formula to calculate area of a rectangle	**Measurement: Length** LEVEL 3–5 • Area and perimeter challenge (DOK 3) • Perimeter problems (DOK 3) LEVEL 4–6 • Card crafting calculation (DOK 2) **Measurement: Area** LEVEL 4–6 • Finding formulas (DOK 3) • Ryan's rectangle (DOK 3)	(Y6-G) **Length, Perimeter and Area** • Units of length (pp 1–7) • Perimeter (pp 8–15) • Area (pp 16–25)

Strand & Topic	Outcomes	New Courses	Activities (Courses)	Skill Quests	Challenges	Ebooks
Unit 1 Number Algebra **Operations, including money** Order of operations Mixed operations Add & subtract decimals: Problem solving Multiply & divide decimals: Problem solving Budgeting	**AC9M6N09** use mathematical modelling to solve practical problems … **AC9M6A02** find unknown values in numerical equations involving brackets …	Coming soon	**Algebra patterns equations & rules** • Order of Operations 1 (BIDMAS) • Solve Equations: Add, Subtract 1 • Solve Equations: Multiply, Divide 1	**Understand order of operations** • Order of operations with no grouping symbols • Order of operations using grouping symbols • Order of operations practical situations		(Y6-G) **Patterns and Algebra** • Properties of arithmetic (pp 34–35)
Unit 2 Measurement **Angles** Angles within shapes Angles on a straight line Angles at a point Vertically opposite angles Determine unknown angles	**AC9M6M04** identify the relationships between angles on a straight line, angles at a point and vertically opposite angles; use these to determine unknown angles, communicating reasoning	Coming soon	**Area and angle** • Measuring Angles • Estimating Angles • Angle Sum of a Triangle • Quadrilaterals: Angle Sum with Equations • Exterior Angles of a Triangle • Angles of revolution: Unknown Values • Vertically Opposite Angles: Unknown Values	**Understand angle properties** • Understanding adjacent angles • Exploring vertically opposite angles • Calculating angles that total 360 • Investigating supplementary & complementary angles	**Geometry: Angles** LEVEL 4–6 • Angles and quadrilaterals (DOK 3) LEVEL 5–7 • What's your angle? (DOK 3) • Comparing vertical and adjacent (DOK 3) • Adjacent angles (DOK 4) **Geometry: 2D Shapes** LEVEL 4–6 • Trying triangles (DOK 2) • Square split (DOK 3)	(Y6-G) **Geometry** • Lines and angles (pp 1–6)
Unit 3 Measurement **Capacity and mass** Convert measurements Decimal representations Problem solving	**AC9M6M01** convert between common metric units of length, mass and capacity; choose and use decimal representations of metric measurements relevant to the context of a problem	Coming soon	**Converting metric units** • Grams and Kilograms 1 • Grams and Kilograms • Grams and Milligrams • Converting Units of Mass • Millilitres and Litres • Converting Volume	**Connect decimals to the metric system** • Decimal notation & the metric system • Decimal representation in capacity • Decimal representation in mass **Convert metric units of measurement** • Converting metric units of capacity • Converting metric units of mass	**Measurement: Volume & Capacity** LEVEL 4–6 • By the bucket (DOK 3) **Measurement: Mass** LEVEL 5–7 • Planets in balance (DOK 3)	(Y6-G) **Volume, Capacity and Mass** • Volume and capacity (pp 1–2, 8) • Mass (pp 9–16)

Strand & Topic	Outcomes	New Courses	Activities (Courses)	Skill Quests	Challenges	Ebooks
Unit 4 Measurement **Time** Interpret and use timetables and itineraries Duration of events	**AC9M6M03** interpret and use timetables and itineraries to plan activities and determine the duration of events and journeys	Coming soon		**Interpret & use timetables** • Interpreting & using timetables	**Measurement: Time** LEVEL 4–6 • Muesli bar time jumble (DOK 2) • Time for a break? (DOK 2) • Mrs Baker's cookie conundrum (DOK 2) LEVEL 5–7 • Find the fastest ferry (DOK 2) • 24-hour travel times (DOK 2) • Circus timetable (DOK 3)	(Y5-F) **Geometry** • Lines and angles (pp 1–6) • 2D shapes (pp 7–15) • Transformation, tessellation and symmetry (pp 16–24)
Unit 5 Probability Statistics **Chance and data** Represent probabilities numerically Estimate and assign probabilities List outcomes Conduct chance experiments Run simulations Record results Compare observations with expected results	**AC9M6P01** recognise that probabilities lie on numerical scales of 0 – 1 or 0% – 100% … **AC9M6P02** conduct repeated chance experiments and run simulations with an increasing number of trials using digital tools … **AC9M6ST01** interpret and compare data sets for ordinal and nominal categorical, discrete and continuous numerical variables … **AC9M6ST03** plan and conduct statistical investigations by posing and refining questions …	Coming soon	**Probability** • Simple Probability • Probability Scale • Complementary Events • Dice and Coins **Conduct chance experiments** • Conducting chance experiments	**Assign probabilities** • Probability as a fraction, decimal or percent • Probabilities from 0 to 1	**Chance & Probability** LEVEL 4–6 • What are the chances? (DOK 3)	(Y6-G) **Chance and Probability** • Chance and probability (pp 1–10)

Strand & Topic	Outcomes	New Courses	Activities (Courses)	Skill Quests	Challenges	Ebooks
Unit 1 Number Algebra **Number and operations review**	**AC9M6N04** apply knowledge of place value to add and subtract decimals … **AC9M6N05** solve problems involving addition and subtraction of fractions … **AC9M6N06** multiply and divide decimals by multiples of powers of 10 … **AC9M6N09** solve problems involving division …	Coming soon	**Review earlier content**	**Review earlier content**	**Review earlier content**	**Review earlier content**
Unit 2 Space **3D objects** Observe and draw shapes Compare cross-sections Right prisms Connecting objects to their nets	**AC9M6SP01** compare the parallel cross-sections of objects and recognise their relationships to right prisms	Coming soon			**Geometry: 3D Shapes** LEVEL 4–6 • Pyramids and prisms (DOK 3) LEVEL 5–7 • Prisms made of straw (DOK 3)	(Y6-G) **Geometry** • 3D shapes (pp 25–32)
Unit 3 Space Number **Cartesian plane and 2D shape** Locate points on Cartesian plane Identify scales Draw lines and polygons Positional data	**AC9M6SP02** locate points in the 4 quadrants of a Cartesian plane … **AC9M6N01** recognise situations, including financial contexts, that use integers …	Coming soon	**Shape and space** • Ordered Pairs • Number Plane • Graphing from a Table of Values • Reading Values from a Line • Transformations: Coordinate Plane • Rotations: Coordinate Plane		**Geometry: Symmetry, Transformation & Location** LEVEL 5–7 • Calculating coordinates (DOK 2)	(Y6-G) **Position** • Spatial orientation (pp 1–5) • Coordinates (pp 6–12) • Maps and scale (pp 13–16) (Y7-H) **The Number Plane** • How does it work? (pp 1-8) • What else can you do? (pp 19-29)

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Mathletics

Strand & Topic	Outcomes	New Courses	Activities (Courses)	Skill Quests	Challenges	Ebooks
Unit 4 Statistics **Data: Interpretation** Statistically informed arguments Plan and conduct statistical investigations Compare distributions	**AC9M6ST01** interpret and compare data sets for ordinal and nominal categorical, discrete and continuous numerical variables … **AC9M6ST02** identify statistically informed arguments presented in traditional and digital media …	Coming soon	**Mode & range** • Mode • Mode from Stem and Leaf Plot • Mode from Frequency Table • Data Extremes and Range • Stem and Leaf Plots with Range • Double Stem and Leaf Plots • Line Graphs: Interpretation	**Interpret, compare & describe data sets** • Describing & interpreting data sets **Compare mode, range & shape** • Understanding mode, range & shape of distributions • Comparing modes in sets of data **Interpret & evaluate secondary data** • Interpreting & evaluating secondary data	**Statistics & Data:** LEVEL 4–6 • Family ages (DOK 2) • Dartboard scores (DOK 2) • Messing with the median (DOK 2) • Arrange the range (DOK 2) LEVEL 5–7 • Spot the mistake! (DOK 3) • Missing dot plots (DOK 2) • Box plot detective (DOK 2) • Show your cards (DOK 3) • A slice of the pie (DOK 3) • Icy stalactite pie (DOK 3) • Lake Scaley fish (DOK 3)	(Y6-G) **Data Representation** • Types of graphs 2 (pp 7-9) • Types of graphs 3 (pp 12–19) • Collecting and analysing data (pp 22–34) • Data investigations (pp 35–39)
Unit 5 Measurement **Measurement review and applications** Choose appropriate units Use measurement in everyday situations	**AC9M6M01** convert between common metric units of length, mass and capacity … **AC9M6M02** establish the formula for the area of a rectangle and use it to solve practical problems **AC9M6M03** interpret and use timetables and itineraries to plan activities and determine the duration of events and journeys	Coming soon	**Review earlier content**	**Review earlier content**	**Measurement: Length** LEVEL 5–7 • Jumpy and Bouncy (DOK 4) • Platinum wire earrings (DOK 3)	**Review earlier content**