Mathletics NZ Curriculum Mathematics and Statistics (2026)

Activities (Courses) and Skill Quests



Phase 2, Years 4-6

December, 2025



Mathletics

NZ Curriculum Mathematics and Statistics (2026) Activities (Courses) & Skill Quests December, 2025

Phase 2, Year 4	4
Number	4
Number structure	4
Operations	5
Rational numbers	7
Financial mathematics	9
Algebra	9
Equations & relationships	9
Measurement	10
Measuring	10
Geometry	12
Shapes	12
Spatial reasoning	12
Pathways	13
Statistics	13
Developing knowledge from data	13
Visualisation of data	13
Interpretation of data	13
Phase 2, Year 5	15
Number	15
Number structure	15
Operations	16
Rational numbers	18
Financial mathematics	21
Algebra	21
Equations & relationships	21
Measurement	22
Measuring	22
Geometry	24
Shapes	24
Spatial reasoning	24
Pathways	24
Statistics	25
Developing knowledge from data	25
Visualisation of data	25
Interpretation of data	25
Probability	26
Experimental probability	26
Phase 2, Year 6	27
Number	27
Number structure	27
Operations	28
Rational numbers	29
Financial mathematics	32

Algebra	32
Equations & relationships	32
Measurement	33
Measuring	33
Geometry	35
Shapes	35
Spatial reasoning	36
Pathways	36
Statistics	37
Developing knowledge from data	37
Visualisation of data	
Interpretation of data	
Probability	38
Experimental probability	38

Phase 2, Year 4

Number

Number structure

Reading, writing, comparing, and ordering whole numbers up to 10,000 and representing them using base 10 structure	
■ Activities	
Number structure: Whole number & place value	Place Value - Thousands
	Place Value 3
	Numbers in Words
	Expanding Numbers
	Partition and Rename 1
	Greater Than or Less Than 1
	Which Is Greater?
	Which Is Less?
	Smallest and largest numbers
	Missing Numbers 1
业 Skill Quests	
Number structures: Numbers to 1,000	Using place value with 3-digit numbers
	Reading & writing 3-digit numbers
	Comparing & ordering numbers to at least 1,000
	Partitioning 3- & 4- digit numbers
Number structures: Numbers up to 10,000	Reading & writing numbers up to 10,000
	Finding numbers before & after
	Ordering & comparing numbers to 10,000

Rounding whole numbers to the nearest thousand, hundred, or ten	
□ Activities	
Number structure: Whole number & place value	Nearest Ten?
	Nearest Hundred?
	Nearest Thousand?
业 Skill Quests	
Number structures: Round to 10,100,1000	Rounding whole numbers to 10,000

Rounding tenths to the nearest whole number	
■ Activities	
Teacher directed	
🕍 Skill Quests	
Number structures: Round tenths	Rounding decimal tenths to nearest whole number

Counting forwards and backwards in 2s, 3s, 4s, 5s, 6s, 7s, 8s, 9s, 25s and 50s from multiples of the counting unit	
■ Activities	
Number structure: Whole number & place value	Counting up in 4s
	Counting up in 6s
	Counting up in 7s
	Counting up in 8s

™ Skill Quests	
Number structures: Count multiples	Counting in 2s
	Counting in 5s
	Counting in 3s
	Counting in 4s
	Counting in 6s, 7s, 8s & 9s
	Counting in 25s & 50s

Counting in 10s, 100s, and 1,000s from any whole number up to 10,000	
■ Activities	
Teacher directed	
™ Skill Quests	
Number structures: Count 10s 100 & 1,000	Counting in 10s & 100s
	Counting in 1,000s

Operations

Adding and subtracting up to four-digit numbers	
■ Activities	
Operations: Addition & subtraction	Doubles and near doubles
	Complements to 50 and 100
	Add 3 Numbers: Bonds to 100
	Split Add and Subtract
	Jump add and subtract
	Add 3-digit Numbers
	3-Digit Differences
	Add Three 2-Digit Numbers
	Repartition to Subtract
	Subtract Numbers: Regroup
Operations: Add & subtract	Adding & subtracting multiples of 10
	Adding & subtracting multiples of 100
	Add & subtract multiples of 100, 1,000, 10,000
	Adding & subtracting to 3-digits, number line
	Adding & subtracting to 4-digits, number line
	Adding & subtracting with models
	Bridging to 10 up to 3-digits
	Rounding to add & subtract using 4-digit numbers
Operations: Add & subtract vertically	Vertical addition (no renaming)
	Vertical addition (with renaming)
	Vertical subtraction (no renaming)
	Vertical subtraction (with renaming)

Memorising multiplication and corresponding division facts for 2s to 10s	
■ Activities	
Operations: Multiplication & division	Grouping in Sixes
	Grouping in Eights
	Grouping in Nines
	Bar Model ×÷

	Dividing Sixes
	Dividing Eights
	Dividing Nines
	Times Tables
	Related Facts 2
	Multiplication Turn-Abouts
	Multiply: 1-Digit Number
址 Skill Quests	
Operations: Facts to 10 x 10 (x ÷)	Multiplication & division facts for 2
	Multiplication & division facts for 3
	Multiplication & division facts for 4
	Multiplication & division facts for 5
	Multiplication & division facts for 8
	Multiplication & division facts for 10
	Multiplication & division facts for 6
	Multiplication & division facts for 7
	Multiplication & division facts for 9
	Multiplication & division facts to 10 x 10

Using place value and known and derived facts to multiply and divide mentally, including multiplying by 0 and 1 and dividing by

1

Activities

Operations: Multiplication & division

Multiply 3 single-digit numbers
Multiply: 2-Digit by 1-Digit
Grid Methods 1
Multiply Multiples of 10
Halve it!
Estimate Products
Estimate Quotients

Skill Quests

Operations: Multiplication strategies

Multiplying 1-digit by tens using place value
Using strategies to multiply 1-digit numbers
Multiplying using the associative property

Multiplying by 1 or 0

Multiplying two-digit and three-digit numbers by a one-digit number	
■ Activities	
Operations: Multiplication & division	Multiply 3 single-digit numbers
	Multiply: 2-Digit by 1-Digit
	Grid Methods 1
	Multiply Multiples of 10
	Estimate Products
Measuring, perimeter, area, volume & time	Time Conversions: Whole Numbers 1
™ Skill Quests	
Operations: Multiply by 2- & 3-digits	Multiplying 2-digit by 1-digit using place value
	Multiplying 2-digit by 1-digit using doubling
	Multiplying 2-digit by 1-digit using an algorithm
	Multiplying 3-digit by 1-digit using place value
	Multiplying 3-digit by 1-digit using an algorithm

Dividing up to a three-digit whole number by a one-digit divisor, with no remainder (e.g. 65 ÷ 5)	
■ Activities	
Operations: Multiplication & division	Halve it!
	Estimate Quotients
Measuring, perimeter, area, volume & time	Time Conversions: Whole Numbers 1
★ Skill Quests	
Operations: Division strategies	Relating multiplication & division facts
	Exploring division to 10 x 10 using models
	Dividing by 1
	Dividing using place value & known facts

Rational numbers

Reading, writing, and representing tenths as fractions and decimals	
■ Activities	
Teacher directed	
★ Skill Quests	
Rational numbers: Tenths	Representing & counting in tenths
	Understanding decimal tenths
	Connecting decimals & fractions

Comparing and ordering tenths as fractions and decimals	
■ Activities	
Teacher directed	
™ Skill Quests	
Rational numbers: Compare & order tenths	Comparing & ordering tenths

Memorising and using the decimal equivalent of 1/2 and fractions with denominators of 10

Activities

Teacher directed

Skill Quests

Teacher directed

Dividing one- and two-digit whole numbers by 10 to make decimals and identify tenths

Activities

Teacher directed

Skill Quests

Rational numbers: Divide numbers by 10

Finding unit fractions of sets

Multiplying decimal tenths by 10

Activities

Teacher directed

Skill Quests

Teacher directed

Comparing and ordering fractions with the same numerator or same denominator		
■ Activities		
Rational numbers: Fractions	Comparing Fractions 1	
	Compare fractions 1b	
业 Skill Quests		
Rational numbers: Compare & order frac	Comparing & ordering fractions same denominators	
	Comparing & ordering fractions same numerators	

Relating fractions, improper fractions, and mixed numbers to their position on a number line	
■ Activities	
Rational numbers: Fractions	Identifying Fractions on a Number Line
	Mixed and Improper Fractions on a Number Line
业 Skill Quests	
Rational numbers: Improper & mixed	Converting improper fractions & mixed numbers

Identifying when two fractions are equivalent, using representations		
■ Activities		
Rational numbers: Fractions	Mixed and Improper Fractions on a Number Line	
	Equivalent Fractions on a Number line 1	
	What Mixed Number Is Shaded?	
业 Skill Quests		
Rational numbers: Equivalent fractions	Finding equivalent fractions using models	

Adding and subtracting fractions with the same denominators, including beyond a whole		
■ Activities		
Rational numbers: Fractions	Add: Common Denominator	
™ Skill Quests		
Add/subtract- same denominators	Adding & subtracting fractions up to 1	
	Adding & subtracting fractions beyond 1	

Adding and subtracting decimals to one decimal place (e.g. 1.3 + 0.2 = 1.5)	
■ Activities	
Teacher directed	
业 Skill Quests	
Rational numbers: Decimal tenths + -	Adding & subtracting decimals using place value
	Adding & subtracting decimals using bridging to 10

Using known multiplication and division facts to scale a quantity (e.g. to double or halve a recipe)	
■ Activities	
Teacher directed	
业 Skill Quests	
Rational numbers: Scaling	Using multiplication facts to scale a quantity

Finding a unit fraction of a whole number, using multiplication and division facts and where the answer is a whole number (e.g. 1/4 of 400)

Activities

Rational numbers: Fractions

Fraction Length Models 1

Unit fractions

Fractions of a Collection 1

Skill Quests

Rational numbers: Unit fractions of sets Finding unit fractions of sets

Finding the whole set or amount when given a unit fraction, using multiplication and division facts (e.g. 1/4 of a set is 7, what is the whole set?)

Activities

Teacher directed

Skill Quests

Rational numbers: Find the whole Finding the whole from the part

Financial mathematics

Calculating the total cost of several items costing whole-dollar amounts and with different prices, or of multiples of the same item, including giving change

Activities

Teacher directed

Skill Quests

Financial maths: Calculate change Calculating change

Representing amounts of currency using different combinations of denominations (e.g. making \$5 and 80 cents in multiple ways using play money)

Activities

Teacher directed

Skill Quests

Financial maths: Make money amounts

Using money

Algebra

Equations & relationships

Checking the truth of number sentences and completing open number sentences involving addition and subtraction (e.g. 8205 - 4721 = 3484, true or false?; $4200 - ___ = 4001$)

Activities

Algebra: Equations & relationships

Bar Model Problems 2

Missing values

Skill Quests

Equations: Add/sub open number sentencesCompleting open number sentences add/sub

Checking the truth of number sentences and completing open number sentences involving multiplication and division (e.g. $11 \times 7 = 78$, true or false?; $= \div 10 = 12$)

Activities

Algebra: Equations & relationships	Fact Families: Multiply and Divide	
	Missing Numbers: × and ÷ facts	
™ Skill Quests		
Equations: Mult/div open number sentence	Using equivalence to solve problems	

Recognising, continuing, creating, and describing growing patterns (including numerical and non-numerical patterns) that change by adding, subtracting, or multiplying by a constant whole number (e.g. 5,7,9,11...; 3,6,12,24...) Activities Algebra: Equations & relationships Increasing patterns **Decreasing Patterns** Counting on a 100 grid **Skill Quests Relationships: Growing number patterns** Recognising & creating growing patterns

Record visual patterns in diagrams, lists, tables

Measurement

Measuring

Using familiar objects (e.g. body parts) and experiences (e.g. time taken to travel to school, the temperature outside) to create estimation benchmarks

Activities

Teacher directed



Skill Quests

Teacher directed

Using the appropriate tool for measuring length, mass (weight), and capacity in mixed units (e.g. 1 m and 23 cm, 10 kg and 3 g, 2 L and 500 mL)

Land 300 mLy	
□ Activities	
Measuring, perimeter, area, volume & time	Which unit of Measurement?
	Using a Litre
	How Long is That?
	Measure to the Nearest Half Centimetre
	How Heavy is it?
¥ Skill Quests	
Measuring: Measure in cm & m	Measuring in m & cm
Measuring: Length in mm, cm & m	Introducing millimetres
Measuring: Appropriate units of length	Selecting appropriate units of length
Measuring: Measure mass (g & kg)	Measuring mass in g & kg
Measuring: Appropriate units of mass	Selecting appropriate units of mass
Measuring: Measure capacity (litres)	Measuring in litres
Measuring: Apply metric measures	Using appropriate metric measures

Measuring temperature in degrees Celsius		
■ Activities		
Measuring, perimeter, area, volume & time	What's the Temperature (Celsius)?	
™ Skill Quests		
Measuring: Measure temperature	Introducing thermometers	
	Measuring temperature	

Measuring the perimeter	r of polygons using metric units (mm, cm, and m)
■ Activities	
Measuring, perimeter, area, volume & time	Perimeter of shapes
≌ Skill Quests	
Measuring: Perimeter	Measuring perimeter in cm
Measuring the areas of irre	gular shapes covered with squares and half squares
■ Activities	
Teacher directed	
¥ Skill Quests	
Measuring: Area of irregular shapes	Activity
Calculating the areas of rectangular f	figures (including squares) using multiplication of side lengths
■ Activities	
Measuring, perimeter, area, volume & time	Area of Shapes
¥ Skill Quests	
Measuring: Area using multiplication	Calculating area using multiplication
Measuring the volumes of rectangu	ular prisms (cuboids) by filling them with identical 3D blocks
□ Activities	
Measuring, perimeter, area, volume & time	How many Blocks?
¥ Skill Quests	
Measuring: Volume	Comparing volume using blocks
Estimating the size of angle	es by comparing them to 90, 180, and 360 degrees
■ Activities	
Measuring, perimeter, area, volume & time	Estimating Angles
	Right Angle Relation
≌ Skill Quests	
Teacher directed	
Telling the time on and	alogue and digital clocks to the nearest minute
■ Activities	
Measuring, perimeter, area, volume & time	What is the Time?
≌ Skill Quests	
Measuring: Tell the time	Telling time to 5 minutes
	Telling time to the minute
Measuring duration in hours, minutes, and seconds, including mixed time units (e.g. 1h and 42mins, 3mins and 21s)	
■ Activities	
Teacher directed	
★ Skill Quests	

Exploring units of time (hr, min, sec)

Working with mixed units of time (hr, min, sec)

Measuring: Units of time (hr, min, sec)

Finding equivalent durations of time using different units (e.g. 3 weeks is 21 days; 90 seconds = 1.5 minutes; 48 hours = 2 days)	
■ Activities	
Measuring, perimeter, area, volume & time	Time Conversions: Whole Numbers 1
🕍 Skill Quests	
Measuring: Equivalent durations of time Finding equivalent durations of time	

Geometry

Shapes

Identifying, classifying, and describing the attributes of regular and irregular polygons of up to 12 sides, using edges, vertices, and angles	
■ Activities	
Geometry: Shape, space & pathways	Count Sides and Corners
	Collect More Shapes
☆ Skill Quests	
Shapes: Regular & irregular polygons	Identifying & describing quadrilaterals
	Exploring regular & irregular polygons

Identifying the number of lines of symmetry in 2D shapes	
■ Activities	
Geometry: Shape, space & pathways	Symmetry
	Lines of Symmetry
™ Skill Quests	
Shapes: Symmetry in shapes	Identifying line symmetry (1 or more)

Spatial reasoning

Visualising 3D shapes and connecting them with 2D diagrams, verbal descriptions, and the same shapes drawn from different

perspectives	
■ Activities	
Geometry: Shape, space & pathways Select the Objects	
	Relate Shapes and Solids
	How Many Faces?
业 Skill Quests	
Spatial reasoning: Shapes in 3D objects	Comparing faces of 3D objects with 2D shapes

Performing one-step transformations (reflections, translations, rotations) on 2D shapes	
□ Activities	
Geometry: Shape, space & pathways	Flip, Slide, Turn
址 Skill Quests	
Spatial reasoning: Transformations	Identifying transformations

Pathways

Use alphanumeric and general grid references to identify regions and plot positions on a grid map	
■ Activities	
Geometry: Shape, space & pathways	Using a Key
	Map Coordinates
址 Skill Quests	
Pathways: Grid references	Interpreting & using grid-referenced maps

Statistics

Developing knowledge from data

Collecting numerical data, and, if needed, rounding to an appropriate unit or part of a unit, based on the context (e.g. How many skips can we do in 30 seconds? How long does it take us to run 1000 m?)

Activities

Teacher directed

Skill Quests

Data: Collecting numerical data

Asking questions, collecting & recording data

Visualisation of data

Creating dot-plot or bar-graph data visualisations	
■ Activities	
Teacher directed	
™ Skill Quests	
Data: Creating data visualisations	Creating dot-plot data visualisations
	Creating bar-graph data visualisations

Interpretation of data

Answering questions about the frequency of a particular value in dot plots	
■ Activities	
Statistics	Dot Plots
¥ Skill Quests	
Teacher directed	

Answering questions about individual values in a dot plot, while referring to the context		
□ Activities		
Statistics	Dot Plots	
址 Skill Quests		
Data: Answer questions about dot plots	Answering questions about dot plots	

Interpreting data visualisations	
☐ Activities	
Statistics	Tally Charts
	Bar Chart
	Interpreting Tables
★ Skill Quests	
Data: Interpret data visualisations	Interpreting data visualisations

Distinguishing between when to use a particular value or the frequency for a given value when answering questions about dot plots (e.g. How many pets does the person with the most pets have? What's the most common number of pets that anyone has?)

Activities

Teacher directed

Skill Quests

Teacher directed

Phase 2, Year 5

Number

Number structure

Reading, writing, comparing, and ordering whole numbers up to 1,000,000 and representing them using base 10 structure	
■ Activities	
Number structure: Whole numbers & place value	Numbers from Words to Digits 1
	Numbers from Words to Digits 2
	Place Value to Millions
	Expanded Notation
	Place Value Partitioning
业 Skill Quests	
Number structures: Numbers to 1,000,000	Reading & writing numbers to 1,000,000
	Comparing & ordering numbers to 1,000,000
	Partitioning up to 1,000,000

Finding factor pairs for numbers that result from multiplying any two whole numbers between 1 and 10	
□ Activities	
Operations: Multiplication & division	Find the Factor
	Multiples of
™ Skill Quests	
Number structures: Factor pairs	Factors up to 100

Rounding whole numbers to the nearest hundred thousand, ten thousand, thousand, hundred, or ten		
■ Activities		
Number structure: Whole numbers & place value	Rounding Numbers	
★ Skill Quests		
Number structures: Round whole numbers Rounding whole numbers up to 100,000		

Rounding tenths or hundredths to the nearest whole number		
■ Activities		
Rational numbers: Decimals & percentages	Nearest Whole Number	
业 Skill Quests		
Number structures: Round decimals	Rounding tenths	
	Rounding hundredths	

Counting forwards and backwards in 11s and 12s from multiples of the counting unit		
Activities		
Teacher directed		
业 Skill Quests		
Teacher directed		

	Counting in 1,000s, 10,000s, and 100,000s from any whole number up to 100,000
Activities	
Teacher directed	
Teacher directed	

Counting backwards through 0 to include negative whole numbers		
□ Activities		
Number structure: Whole numbers & place value		
™ Skill Quests		
Number structures: Count back through 0 Placing integers on a number line		

Operations

Adding and subtracting increasingly large whole numbers		
□ Activities		
Operations: Addition & subtraction	Bump add and subtract	
	Jump Add and Subtract	
	Split Add and Subtract	
	Compensation - Add	
	Compensation - Subtract	
	Number Sequences Up to 1 Million	
	Add Two 2-Digit Numbers: Regroup	
	2-Digit Differences: Regroup	
	3-Digit Differences: 1 Regrouping	
★ Skill Quests		
Operations: Add larger numbers	Adding & subtracting multiples of 100	
	Choosing efficient mental strategies	
Operations: Estimation + -	Rounding & estimating with addition	
	Rounding & estimating with subtraction	
Operations: Properties of addition	Rounding & estimating with addition & subtraction	
	Using the commutative property of addition	
	Using the associative property of addition	

Memorising multiplication and corresponding division facts for 2s to 12s	
■ Activities	
Operations: Multiplication & division	Multiplication Facts
	Division Facts 1
	Bar Model ×÷
站 Skill Quests	
Operations: Facts to 12 x 12 (x ÷)	Recalling multiplication facts to 10 x 10
	Multiplying by 11
	Multiplying by 12
	Recalling multiplication facts to 12 x 12

Applying mental strategies, number facts, derived facts, factor pairs, and multiples to multiply and divide increasingly large numbers

■ Activities	
Operations: Multiplication & division	Multiply 3 single-digit numbers
	Multiply Multiples of 10
	Multiply More Multiples of 10
	Multiplying by 10, 100, 1000
	Double and Halve to Multiply
	Mental Methods Multiplication 2
	Grid Methods 1
	Grid Methods 2
	Halve it!
	Remainders by Arrays
	Estimate Products
	Estimate Quotients
业 Skill Quests	
Operations: Multiplication strategies	Multiplying 1-digit by tens using place value
	Using strategies to multiply 1-digit numbers
	Associative property of multiplication
	Commutative property of multiplication
	Multiplying using the split method
	Multiplying using an area model
	Multiplying using factorising
Operations: Mental strategies (x ÷)	Multiplying & dividing multiples of 10
	Solving multiplication & division problems
	Rounding & estimating multiplication & division

Multiplying three-digit and four-digit numbers by a one-digit number and multiplying two two-digit numbers	
□ Activities	
Operations: Multiplication & division	Multiply 3 single-digit numbers
	Multiply Multiples of 10
	Multiply More Multiples of 10
	Multiplying by 10, 100, 1000
	Double and Halve to Multiply
	Mental Methods Multiplication 2
	Grid Methods 1
	Grid Methods 2
	Multiply: 1-Digit Number
	Contracted Multiplication
	Estimate Products
★ Skill Quests	
Operations: Multiplication algorithms	Multiplying using long multiplication
	Multiplying using the standard written method

Dividing up to four-digit whole numbers by a one-digit divisor, with a remainder (e.g. $278 \div 4 = 69$ remainder 2)	
■ Activities	
Operations: Multiplication & division	Halve it!
	Remainders by Arrays
	Estimate Quotients
™ Skill Quests	
Operations: Remainders in division	Introducing remainders in division
Operations: Division strategies	Dividing using halving & repeated halving

	Dividing using partitioning
Operations: Division algorithms	Dividing using the extended algorithm
	Dividing using the contracted algorithm

Rational numbers

Reading, writing, and representing tenths and hundredths as fractions and decimals	
■ Activities	
Rational numbers: Decimals & percentages	Decimal Place Value
	Decimals from Words to Digits 1
	Decimals on the Number Line
★ Skill Quests	
Rational numbers: Tenths & hundredths	Tenths as fractions & decimals
	Introducing hundredths as fractions & decimals
	Representing tenths & hundredths
	Connecting tenths & hundredths

	Comparing tenths and hundredths as fractions or decimals
■ Activities	
Teacher directed	
≌ Skill Quests	
Teacher directed	

Comparing and ordering numbers with up to two decimal places (e.g. 0.12<0.2,3.55<3.84)	
■ Activities	
Rational numbers: Decimals & percentages	Decimal Order 1
	Comparing Decimals 1
业 Skill Quests	
Rational numbers: Compare decimals	Comparing & ordering tenths & hundredths

Memorising and using decimal equivalents of 1/2, 1/4, and 3/4 and fractions with denominators or 10 or 100		
■ Activities		
Rational numbers: Decimals & percentages	Convert Decimals to Fractions 2	
址 Skill Quests		
Rational numbers: Decimal equivalence	Decimal equivalents for 1/2, 1/4 & 3/4	

Converting common percentages (10%, 25%, 50%) to fractions and decimals		
■ Activities		
Teacher directed		
™ Skill Quests		
Rational numbers: Common percentages	Introducing percentages	
	Converting common percentages to fractions	
	Converting common percentages to decimals	
	Percentages, fractions & decimals	

Dividing one-, and two-digit whole numbers by 10 or 100 to make decimals and identify tenths and hundredths places	
■ Activities	
Measuring, perimeter, area, volume & time	Centimetres and Metres
™ Skill Quests	
Rational numbers: Divide by 10 & 100	Dividing whole numbers by 10 & 100

Multiplying numbers with up to two decimal places by 10 and 100	
■ Activities	
Measuring, perimeter, area, volume & time Centimetres and Metres	
™ Skill Quests	
Rational numbers: Multiply by 10 & 100	Multiplying decimal numbers by 10 & 100

Comparing fractions where one denominator is a multiple of the other	
□ Activities	
Teacher directed	
☆ Skill Quests	
Rational numbers: Compare/order frac	Comparing & ordering fractions

Recognising families of equivalent fractions	
■ Activities	
Rational numbers: Fractions	Equivalent Fraction Wall 1
	Simplify Fractions
	Uneven partitioned shapes 2
🕍 Skill Quests	
Rational numbers: Equivalent fractions	Equivalent fractions up to & greater than 1

Recognising equivalent mixed numbers and improper fractions	
■ Activities	
Rational numbers: Fractions	Counting with Fractions on a Number Line
	Mixed and Improper Fractions on a Number Line
站 Skill Quests	
Teacher directed	

Adding and subtracting fractions with the same denominator or when one denominator is a multiple of the other, including improper fractions (e.g. 2/3+1/9=7/9)

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□ Activities	
Rational numbers: Fractions	Common Denominator
	Subtract Like Fractions
	Add: No Common Denominator
	Subtract: No Common Denominator
★ Skill Quests	
Rational numbers: Add/subtract fractions	Adding & subtracting fractions up to 1
	Adding/subtracting fractions over 1 whole, models
	Adding/subtracting fractions, same
	Adding/subtracting mixed numbers, same

Adding/subtracting fractions, related
Adding/subtracting mixed numbers, related

Adding and subtracting decimals to two decimal places (e.g. 1.31 + 0.22 = 1.53)		
■ Activities		
Rational numbers: Decimals & percentages	Decimal Complements	
	Magic Symbols 2	
Measuring, perimeter, area, volume & time	Calculate Perimeter of Squares and Rectangles	
	Perimeter: Triangles	
™ Skill Quests		
Rational numbers: Add/subtract decimals	Review adding/subtracting decimals to 1 place	
	Adding/subtracting decimals to 2 places	
	Adding/subtracting decimals word problems	

Finding a whole set from a fractional part of the set (e.g. if 8 is 2/5 of a set, what is the whole set?)	
■ Activities	
Rational numbers: Fractions Fraction Word Problems	
™ Skill Quests	
Rational numbers: Find the whole Identifying a whole set from a fraction	

Finding common percentages (10%, 25%, 50%) of whole numbers	
■ Activities	
Rational numbers: Decimals & percentages	Modelling Percentages
	Calculating percentages (Mental)
' Skill Quests	
Rational numbers: Common percentages	Finding common percentages of whole numbers

Finding the whole (100%) when given 25% or 50%	
🗐 Activities	
Teacher directed	
🕍 Skill Quests	
Teacher directed	

Financial mathematics

Calculating the total cost of items costing dollars and cents and the change from the nearest ten dollars

E Activities

Teacher directed

*** Skill Quests

Financial maths: Calculate cost

Calculating costs of items & change

Representing currency values of mixed dollars and cents using decimal notation	
■ Activities	
Teacher directed	
址 Skill Quests	
Financial maths: Represent money Representing money	

Rounding dollar amounts to the nearest dollar	
□ Activities	
Teacher directed	
™ Skill Quests	
Financial maths: Round dollar amounts	Rounding dollar amounts

Algebra

Equations & relationships

Completing number sentences that involve addition and subtraction by using equality (=) and inequality (<, >) symbols (e.g. 2,456 + 203,938 () 3,456 + 231,930; $2,456 \times 2$ () $1,228 \times 4$)

□ Activities	
Equations & relationships	Find the missing number 2
™ Skill Quests	
Equations: Equality addition/subtraction	Comparing numbers using equality symbols

Recognising, continuing, creating, and describing growing patterns that change by a constant amount (e.g. 3, 4.5, 6, 7.5)	
■ Activities	
Equations & relationships Pick the Next Number	
™ Skill Quests	
Relationships: Patterns Recognising & continuing growing patterns	

Measurement

Measuring

Accurately measuring length with a ruler, mass (weight) with scales, capacity with measuring jugs, temperature with a thermometer, and duration with a timer, using appropriate metric or time-based units or a combination of units (e.g. 2 hours and 30 minutes)

■ Activities	
Measuring, perimeter, area, volume & time	Which Unit of Measurement?
	Centimetres and Metres
	Measuring Length
	How Heavy?
¥ Skill Quests	
Measuring: Measuring: Length	Introducing kilometres
	Measuring & recording in mm, cm, m, km
Measuring: Mass	Measuring & recording in g, kg
Measuring: Temperature	Measuring & recording temperature
Measuring: Capacity	Estimating & measuring in mL & L

Converting metric units of length (m and cm)	
■ Activities	
Measuring, perimeter, area, volume & time Centimetres and Metres	
业 Skill Quests	
Measuring: Converting units of length	Converting units of length (m & cm)

Approximating the areas of irregular shapes covered with squares, half squares, and partial squares

E Activities

Teacher directed

Skill Quests

Measuring: Area non-rectilinear shapes

Calculating areas of non-rectilinear shapes

Calculating the areas of rectangles (including squares) using multiplication of side lengths	
□ Activities	
Measuring, perimeter, area, volume & time Calculate Areas of Squares and Rectangles	
™ Skill Quests	
Measuring: Area using multiplication Calculating area using multiplication	

Measuring the volumes of rectangular prisms (cuboids) filled with centicubes by determining the number of cubes in each layer and then multiplying by the number of total layers

and their matter, mg of the named of total rayers	
■ Activities	
Measuring, perimeter, area, volume & time How many Blocks?	
™ Skill Quests	
Measuring: Volume using cubes	Calculating volumes using cubes

Calculating the perimeters of regular polygons and other 2D shapes with straight sides

Activities

Measuring, perimeter, area, volume & time	Calculate Perimeter of Squares and Rectangles
	Perimeter: Triangles
	Perimeter Detectives 1
★ Skill Quests	
Measuring: Perimeter	Calculating perimeter

Recognising that shapes with the same area can have different perimeters, and vice versa		
□ Activities		
Teacher directed		
™ Skill Quests		
Measuring: Perimeter & area	Perimeter & area of rectangles & squares	

Describing and classifying angles and turns using the terms acute, right, obtuse, straight, and reflex	
□ Activities	
Measuring, perimeter, area, volume & time	Comparing Angles
	Right Angle Relation
	What Type of Angle 2?
业 Skill Quests	
Measuring: Identify & classify angles	Understanding angle concepts
	Introducing right angles
	Classifying angles

Classifying and constructing angles up to 180°, using a protractor	
■ Activities	
Teacher directed	
™ Skill Quests	
Measuring: Measure & estimate angles	Measuring & estimating angles

Telling the time on analogue and digital clocks		
□ Activities		
Measuring, perimeter, area, volume & time	What is the Time?	
™ Skill Quests		
Measuring: Tell time	Telling time to the minute & second	

Finding the duration of periods of time involving a.m. and p.m. notation and 24-hour time	
■ Activities	
Measuring, perimeter, area, volume & time	24 Hour Time
	Time Mentals
★ Skill Quests	
Measuring: Find the duration	Using am & pm notation
	Finding duration of periods of time
	Using timetables
	Using 24-hour time

Geometry

Shapes

Identifying, classifying, and describing the attributes of prisms, using cross sections, faces, edges, and vertices	
■ Activities	
Shape, space & pathways	Faces, Edges and Vertices
	What Prism am I?
™ Skill Quests	
Shapes: Properties of prisms	Classifying & sorting prisms by features

Identifying parallel and perpendicular lines, including those forming the sides of polygons		
■ Activities		
Shape, space & pathways	What Line am I?	
址 Skill Quests		
Shapes: Parallel & perpendicular lines	Identify & describe parallel & perpendicular lines	

Spatial reasoning

Connecting 3D shapes with nets	
■ Activities	
Teacher directed	
🕍 Skill Quests	
Spatial reasoning: Nets	Exploring nets of prisms

Describing the transformations performed (reflections, translations, rotations) on 2D shapes	
■ Activities	
Shape, space & pathways	Transformations
	Rotational Symmetry of Shapes
🕍 Skill Quests	
Spatial reasoning: Transformations	Transformations on 2D shapes

Pathways

Interpret and create grid maps to plot positions and pathways, using grid references and directional language, including the four main compass points

■ Activities	
Shape, space & pathways	What Direction was That?
	Coordinate Meeting Place
★ Skill Quests	
Pathways: Positions & pathways on maps	Compass directions
	Using grid references
	Using simple scales on maps

Statistics

Developing knowledge from data

Collecting bivariate data with two categorical variables (e.g. what students in our class do at lunch time, and their gender)

Activities

Teacher directed

¥ Skill Quests

Data: Collect bivariate data Collecting bivariate data

Visualisation of data

Creating tables for continuous numerical data, using groupings (e.g. 0-0.99, 1-1.99, 2-2.99)

Activities

Teacher directed



Data: Create tables for data

Using tables to display data

Creating clustered bar graphs for paired categorical data

Activities

Teacher directed

Skill Quests

Data: Bar graphsCreating clustered bar graphs

Interpretation of data

Answering questions about the frequency of particular values or groups of values from a table for continuous numerical data

Activities

Statistics & probability Line Graphs: Reading

Histograms

Skill Quests

Teacher directed

Answering questions about bivariate data in which a specific category in one variable appears more frequently than a specific category in another variable

Activities

Statistics & probability Interpreting Tables

Skill Quests

Teacher directed

Interpreting data visualisations	
■ Activities	
Statistics & probability	Interpreting Tables
	Bar Graphs 1
	Line Graphs: Reading
	Histograms
址 Skill Quests	
Statistics: Interpret data displays	Using & evaluating data displays

Probability

Experimental probability

Conducting repeated chance experiments or games, identifying the outcomes, and describing differences between them using

likelihood vocabulary	
□ Activities	
Teacher directed	
™ Skill Quests	
Probability: Experiments	Investigating chance experiments
	Understanding fair/unfair in chance experiments

Identifying the likelihood of an everyday event as being impossible, unlikely, even-chance, likely, or certain (e.g. the event 'the sun will rise tomorrow' is certain)

■ Activities	
Statistics & probability	What are the Chances?
★ Skill Quests	
Probability: Likelihood	Language of probability
	Describing chance

Placing everyday events on a number line according to their likelihood (e.g. placing the event 'you will eat something later today' between 1/2 and 1 as 'likely' or 'very likely')

□ Activities	
Statistics & probability Probability Scale	
★ Skill Quests	
Probability: Number line	Ordering chance outcomes

Phase 2, Year 6

Number

Number structure

Reading, writing, comparing, and ordering any whole number and representing them using base 10 structure	
■ Activities	
Number structure: Whole number & place value	Place Value - Millions
	Place Value to Billions
	Numbers from Words to Digits 2
	Equal, Less or Greater than?
	Expanded Notation
	Partition and Rename 3
¥ Skill Quests	
Number structures: Numbers of any size	Reading & writing numbers
	Place value
	Comparing & ordering numbers

Finding factor pairs for numbers that result from multiplying any two whole numbers between 1 and 12		
■ Activities		
Operations: Multiplication & division	Multiples of	
	Find the Factor	
™ Skill Quests		
Number structures: Factor pairs	Factor pairs	

Rounding whole numbers to the nearest million, hundred thousand, ten thousand, thousand, hundred, or ten	
□ Activities	
Teacher directed	
业 Skill Quests	
Number structures: Round to powers of 10	Rounding whole numbers to powers of 10

Rounding hundredths to the nearest whole number or tenth	
■ Activities	
Rational numbers: Fractions & decimals	Nearest Whole Number
	Rounding Decimals 1
★ Skill Quests	
Number structures: Round hundredths	Rounding hundredths, nearest tenth or whole number

Recognising square and cube numbers and the notation for squared (2) and cubed (3)		
■ Activities		
Number structure: Whole number & place value	Square Roots	
Number structures: Recognise square/cube	Recognising square numbers	
	Recognising cube numbers	

Memorising the square numbers to 144 and cube numbers to 125		
■ Activities		
Number structure: Whole number & place value	Square Roots	
业 Skill Quests		
Number structures: Find squares & cubes	Finding square & cube numbers	

Counting forwards and backwards with positive whole numbers, including working with negative numbers (e.g. starting at -6 and counting backwards in 2s)

■ Activities	
Number structure: Whole number & place value	Integers on a Number Line
★ Skill Quests	
Number structures: Integers	Comparing & ordering positive & negative numbers

Operations

Calculating expressions using the order of operations		
■ Activities		
Operations: Multiplication & division	Order of operations 1	
★ Skill Quests		
Operations: Order of operations	Order of operations	

Adding and subtracting any whole numbers		
■ Activities		
Operations: Addition & subtraction	Compensation - Add	
	Compensation - Subtract	
	Adding Colossal Columns	
	Add 3-Digit Numbers: Regroup	
	Add Multi-Digit Numbers 2	
	2-Digit Differences: Regroup	
	3-Digit Differences: 2 Regroupings	
	3-Digit Differences with Zeros	
业 Skill Quests		
Operations: Add & subtract whole numbers	Adding & subtracting using partitioning	
	Addition using standard written algorithms	
	Subtraction using standard written algorithms	
	Addition & subtraction word problems	

Multiplying any whole number by a two-digit number (e.g. 542 ×12)	
□ Activities	
Operations: Multiplication & division	Multiplication Facts
	Double and Halve to Multiply
	Mental Methods Multiplication 1
	Grid Methods 2
	Grid Methods 3
	Multiplying Whole Numbers by 10, 100, and 1000
	Multiply: 1-Digit Number
	Estimation: Multiply and Divide

业 Skill Quests	
Operations: Mental strategies (x)	Multiplying using an area model
	Multiplying by doubling/halving, tripling/thirding
	Multiplying using factorising
Operations: Vertical strategies (x)	Multiplying using standard written method
	Multiplying using long multiplication
Operations: Solve problems (x)	Solving multiplication word problems

Dividing up to five-digit whole numbers by a one-digit divisor, with a remainder (e.g. 1283 ÷ 5= 256, remainder 3)	
■ Activities	
Operations: Multiplication & division	Division Facts to Twelve
	Dividing by 10, 100, 1000
	Mental Methods Division 1
	Rounding Numbers for Division
	Estimation: Multiply and Divide
Operations: Mental strategies (÷)	Dividing using factors
	Dividing using partitioning
Operations: Vertical strategies (÷)	Dividing using long division
	Dividing using standard written method
	Division using standard written method 2
Operations: Solve problems (÷)	Choosing efficient strategies to divide
	Solving division word problems

Connecting finding unit fractions of whole numbers to division (with remainders) (e.g. 1/6 of 31 is equivalent to $31 \div 6 = 5 1/6$)

Activities

Teacher directed



Teacher directed

 $Representing\ remainders\ from\ division\ as\ whole\ numbers,\ fractions,\ or\ rounded\ decimals,\ as\ appropriate\ to\ the\ context$

Activities

Teacher directed



	Representing remainders as whole numbers
	Representing remainders as fractions

Rational numbers

Reading, writing, and representing tenths, hundredths, and thousandths as fractions and decimals	
□ Activities	
Rational numbers: Fractions & decimals	Decimal place value
	Decimals from Words to Digits 2
	Decimals to Fractions 1
™ Skill Quests	
Rational numbers: Decimals - thousandths	Tenths, hundredths & thousandths
	Understanding & modelling decimals to thousandths

Comparing and ordering numbers with up to three decimal places	
□ Activities	
Rational numbers: Fractions & decimals	Comparing Decimals
	Decimal Order
业 Skill Quests	
Rational numbers: Compare/order decimals	Compare & order decimals to three places

Converting decimal tenths and hundredths to fractions and percentages (e.g. $0.31 = 31/100 = 31\%$)	
■ Activities	
Rational numbers: Fractions, decimals & percents	Decimals to percentages
★ Skill Quests	
Rational numbers: FDP	Converting fractions & decimals to percentages
	Equivalence fractions, decimals & percentages

Multiplying and dividing numbers by 10, 100, or 1,000 to make decimals and whole numbers (e.g. 1.3 × 10 = 13) and to identify tenths, hundredths, and thousandths places

Rational numbers: Fractions & decimals

Multiply Decimals 10 100 1000

Divide Decimals: 10, 100, 1000

Skill Quests

Rational numbers: Mult/div by 10 & 100

Dividing numbers by 10

Multiplying numbers by 10, 100 & 1000

Finding equivalent fractions	
■ Activities	
Rational numbers: Fractions & decimals	The Equivalent Fraction
	Simplify Fractions
™ Skill Quests	
Rational numbers: Equivalent fractions	Finding equivalent fractions

Comparing and ordering fractions where at least one denominator is a common multiple of all the others

E Activities

Teacher directed

** Skill Quests

Rational numbers: Compare/order frac

Comparing & ordering fractions

Converting between mixed numbers and improper fractions		
□ Activities		
Rational numbers: Fractions & decimals	Mixed and improper fractions on the number line	
	Converting Mixed and Improper	
™ Skill Quests		
Rational numbers: Improper & mixed	Exploring fractions greater than 1	
	Converting improper fractions & mixed numbers	

Adding and subtracting fractions and mixed numbers when one denominator is a multiple of the other		
■ Activities		
Rational numbers: Fractions & decimals	Add: No Common Denominator	
	Subtract: No Common Denominator	
	Add Unlike Mixed Numbers	
业 Skill Quests		
Add/subtract same denominator	Adding/subtracting fractions	
Add/subtract related denominator	Adding/subtracting fractions	
	Adding/subtracting mixed numbers	

Adding and subtracting decimals to three decimal places	
□ Activities	
Rational numbers: Fractions & decimals	Add decimals 1
	Subtracting Decimals
★ Skill Quests	
Rational numbers: Add/sub decimals	Adding & subtracting decimals word problems
	Adding & subtracting decimals to 3 decimal places

Finding a non-unit fraction of a whole number, using multiplication and division facts and where the answer is a whole number (e.g. 2/3 of 240)

Rational numbers: Fractions & decimals

Fraction Word Problems

Fraction Fruit Sets 2

Skill Quests

Rational numbers: Fraction of an amount

Finding a fraction of a whole number

Finding a whole set or amount when given a non-unit fraction, using multiplication and division facts (e.g. 3/4 of the set is 90, what is the whole set?)

■ Activities	
Rational numbers: Fractions & decimals	Fraction Word Problems
★ Skill Quests	
Rational numbers: Find the whole	Identifying a whole set from a fraction

Finding common percentages (1%, 10%, 20%, 25%, 50%, 75%) of whole numbers	
■ Activities	
Rational numbers: Fractions, decimals & percents	Calculating percentages (Mental)
	Percentage of an amount using Fractions (<100%)

	Percentage Word Problems
★ Skill Quests	
Rational numbers: Percent of an amount	Finding a percentage of a whole number

Finding the whole (100%) when given a percentage (e.g. 75% is 24)	
■ Activities	
Rational numbers: Fractions, decimals & percents	Percentage Word Problems
址 Skill Quests	
Teacher directed	

Reasoning proportionally with fractions, decimals, and percentages to compare two quantities and determine missing values	
□ Activities	
Rational numbers: Fractions, decimals & percents	Calculating percentages (Mental)
	Percentage of an amount using Fractions (<100%)
	Percentage Word Problems
™ Skill Quests	
Teacher directed	

Financial mathematics

Calculating 10%, 25%, and 50% of whole dollar amounts (e.g. 50% of \$280)		
□ Activities		
Teacher directed		
™ Skill Quests		
Financial maths: Percents of amounts	Calculating 10%, 25% & 50% of whole dollar amounts	

Investigating questions involving purchases (e.g. ensuring there's enough money)		
■ Activities		
Teacher directed		
业 Skill Quests		
Financial maths: Financial plans	Solving problems involving purchases	
	Creating simple financial plans	

Algebra

Equations & relationships

Developing a rule for a growing pattern in words and making conjectures about further elements in the pattern	
■ Activities	
Algebra: Equations & relationships	Table of Values
™ Skill Quests	
Relationships: Growing patterns Investigating growing patterns	

Locating coordinate points on a coordinate plane, including points found on the x - or y -axis	
■ Activities	
Algebra: Equations & relationships	Coordinate Graphs
	Graphing from a Table of Values
Skill Quests	
Relationships: Locate coordinate points	Locating coordinate points on a coordinate plane

Generating a table of values from a rule for a growing pattern and plotting these points on a coordinate plane	
■ Activities	
Algebra: Equations & relationships	Table of Values
	Graphing from a Table of Values
' Skill Quests	
Relationships: Tables of values	Generating a table of values for a growing pattern

Measurement

Measuring

Accurately measuring length with a ruler, mass (weight) with scales, capacity with measuring jugs, temperature with a thermometer, and duration with a timer, using appropriate metric or time-based units or a combination of units (e.g. 2 hours and 30 minutes)

■ Activities	
Measuring, perimeter, area, volume & time	What's the Temperature (Celsius)?
	Measuring Length
	Perimeter: Squares and Rectangles
Measuring: Length	Measuring & recording length
	Comparing & ordering length
	Selecting appropriate units of length
Measuring: Mass	Measuring & recording mass
	Comparing & ordering mass
	Solving mass problems
Measuring: Temperature	Measuring & recording temperature
Measuring: Capacity	Measuring capacity
	Solving capacity problems

Estimating (using benchmarks) length, mass (weight), capacity, temperature, and duration, using appropriate metric or timebased units or a combination of units

Activities

Teacher directed



Measuring: Estimate capacity Estimating capacity

Converting metric units of length (m and cm), mass (g and kg), and capacity (L and mL), including combining mixed units to produce units with up to 2 decimal places (e.g. 10 kg and 500 g = 10.5 kg)

produce units with up to 2 decimal places (e.g. 10 kg and 500 g = 10.5 kg)		
■ Activities		
Measuring, perimeter, area, volume & time	Centimetres and Metres	
	Converting cm and mm	
	Grams and Kilograms Conversion	
业 Skill Quests		
Measuring: Convert units of measure	Solving conversion measurement problems	
	Converting units of length	
	Converting units of mass	
	Converting units of capacity	

Classifying, measuring, and constructing angles up to 360°, using a protractor		
□ Activities		
Measuring, perimeter, area, volume & time	Measuring Angles	
™ Skill Quests		
Measuring: Classify & measure angles	Classifying angles	
	Measuring angles	

Identifying and describing angles at a point, angles on a straight line, and vertically opposite angles, using angle notation	
□ Activities	
Measuring, perimeter, area, volume & time	Angles of revolution: Unknown Values
	Vertically Opposite Angles: Unknown Values
★ Skill Quests	
Teacher directed	

Reasoning about and finding unknown angles in situations involving angles at a point, angles on a straight line, and vertically opposite angles

■ Activities	
Measuring, perimeter, area, volume & time	Angles of revolution: Unknown Values
	Vertically Opposite Angles: Unknown Values
★ Skill Quests	
Measuring: Find unknown angles	Adjacent angles
	Angles on a straight line
	Vertically opposite angles

Visualising, estimating, and calculating (using multiplication) the areas of rectangles and right-angled triangles (in cm2 and m2) and the volumes of rectangular prisms (in cm3)

<u> </u>		
■ Activities		
Measuring, perimeter, area, volume & time	Area: Squares and Rectangles	
	Volume of Solids and Prisms - 1cm³ blocks	
	Volume: Rectangular Prisms 1	
业 Skill Quests		
Measuring: Calculate area	Calculating the area of rectangles	
	Calculating the area of right-angled triangles	
Measuring: Volume using multiplication	Calculating the volume of rectangular prisms	

Calculating, estimating, and comparing the volumes of cubes and rectangular prisms using standard units, including cubic centimetres (cm3) and cubic metres (m3)

Activities

Measuring, perimeter, area, volume & time

Volume of Solids and Prisms - 1cm³ blocks

Volume: Rectangular Prisms 1

Skill Quests

Measuring: Volume using standard units

Calculating volumes using standard units

Converting between units of time (h, min, s)		
□ Activities		
Measuring, perimeter, area, volume & time	Time Conversions: Whole Numbers 2	
址 Skill Quests		
Measuring: Convert units of time	Converting units of time (h, min, s)	

Measuring duration in both 12- and 24-hour time systems		
■ Activities		
Measuring, perimeter, area, volume & time	Time Conversions: Whole Numbers 2	
™ Skill Quests		
Measuring: Use 12- and 24-hr time	Using 24-hour time	

Finding elapsed time in minutes across an hour (e.g. the difference between 2:53 pm and 3:28 pm)	
■ Activities	
Measuring, perimeter, area, volume & time	Elapsed Time
™ Skill Quests	
Time: Solve elapsed time problems	Solving elapsed time problems

Using and interpreting timetables to calculate the duration of events (e.g. bus and train schedules)		
□ Activities		
Measuring, perimeter, area, volume & time	Using Timetables	
™ Skill Quests		
Measuring: Use timetables	Using timetables	

Geometry

Shapes

Identifying, classifying, and explaining similarities and differences between 2D shapes (including different types of triangles and quadrilaterals) and between prisms and pyramids

quadrilaterals) and between prisms and pyramids	
■ Activities	
Geometry: Shape, space & pathways	Collect More Shapes
	Collect the Objects 2
	Sides, Angles and Diagonals
	Properties of Quadrilaterals
	Faces, Edges and Vertices of 3D Shapes
	Prisms and Pyramids
	What Prism am I?

	What Pyramid am I?
	Triangle Tasters
★ Skill Quests	
Shapes: Identify & classify 2D shapes	Classifying 2D shapes
Shapes: Prisms & pyramids	Comparing & naming prisms
	Comparing & naming pyramids
	Comparing prisms & pyramids

Identifying and describing the interior angles of triangles and quadrilaterals	
■ Activities	
Geometry: Shape, space & pathways	Triangle Tasters
	Classifying Angles
	Angle Measures in a Triangle
™ Skill Quests	
Shapes: Classify shapes by angles	Classifying triangles by angles
	Classifying quadrilaterals by angles

Identifying shapes with rotational symmetry and determining their order of rotational symmetry		
■ Activities		
Geometry: Shape, space & pathways	Rotational Symmetry	
™ Skill Quests		
Shapes: Rotational symmetry	Rotational symmetry	

Spatial reasoning

Visualising, creating, and describing 2D geometric patterns and tessellations using rotation, reflection, and translation, and identifying the properties of the shapes that do not change

Predicting the results of two-step transformations (reflections, translations, rotations) on 2D shapes	
□ Activities	
Geometry: Shape, space & pathways	Transformations
址 Skill Quests	
Spatial reasoning: Transformation	Two-step transformations

Pathways

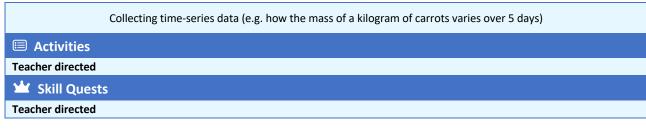
Interpret and create grid references and simple scales on maps, using directional language including the four main compass points, turn (in degrees), and distance (in m, km) to locate and describe positions and pathways

■ Activities	
Geometry: Shape, space & pathways	What direction was that?
	Coordinate Graphs: 1st Quadrant

	Scale
	Scale Factor
🕍 Skill Quests	
Pathways: Grid references & map scales	Using simple scales on maps
	Using grid references & coordinates
Pathways: Positions & pathways	Using cardinal compass directions

Statistics

Developing knowledge from data



Calculating the mean for numerical data	
■ Activities	
Statistics & probability	The Mean
业 Skill Quests	
Statistics: Calculate the mean	Calculating the mean

Calculating the range for numerical data	
■ Activities	
Statistics & probability	Data Extremes and Range
业 Skill Quests	
Statistics: Calculate the range	Calculating the range

Visualisation of data

Creating time-series graphs	
□ Activities	
Teacher directed	
🕍 Skill Quests	
Statistics: Time-series graphs	Representing/reading data in line graphs
	Representing/reading data in dot plots
	Representing/reading data in pie charts
	Representing/reading data in clustered bar graphs
	Representing/reading stem-and-leaf graphs

Choosing and creating an appropriate data visualisation for a given set of data	
■ Activities	
Teacher directed	
业 Skill Quests	
Statistics: Data visualisations	Representing/reading data in strip graphs
	Representing/reading data in bar graphs

Interpretation of data

	Identifying whether a time-series graph shows a trend
■ Activities	
Teacher directed	
Teacher directed	

	Calculating an average and a range for continuous numerical data
Activities	
Teacher directed	
Teacher directed	

Interpreting data visualisations, including those from contemporary media		
■ Activities		
Statistics & probability	Reading from a Column Graph	
	Histograms	
	Line Graphs: Reading	
	Pie Charts	
业 Skill Quests		
Statistics: Interpret data in tables	Interpreting data from tables	
	Interpreting bivariate data & 2-way tables	
Statistics: Evaluate data displays	Using & evaluating data displays	
	Examining data displays for misleading information	

Probability

Experimental probability

Listing the sample space of an event (e.g. the sample space for rolling a die is 1, 2, 3, 4, 5, 6)	
■ Activities	
Statistics & probability	How many Combinations?
¥ Skill Quests	
Sample space	Identifying sample space

Calculating the probabilities of individual outcomes		
■ Activities		
Statistics & probability	Introductory probability	
	Find the probability	
业 Skill Quests		
Find probability of single event	Finding the probability of a single event	

Calculating probabilities using a spinner, where each event is a fraction or combination of fractions on the spinner

Activities

Teacher directed

Teacher directed



Skill Quests

Answering questions about the probability of combinations of outcomes, including checking that the sum of all the probabilities

Activities

Statistics & probability How many Combinations? **Skill Quests Probability of combination of outcomes** Probability of combination of outcomes



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