

# Mathletics

## NZ Curriculum Mathematics and Statistics (2026)

New Courses, Activities (Courses) and Skill Quests



Phase 2, Years 4-6

February, 2026



# Mathletics

NZ Mathematics & Statistics 2026

New Courses, Activities (Courses) and Skill Quests

February, 2026

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# 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	
<b>☀ New Courses</b>	
<b>Number structure: Whole number</b>	Numbers to 10 000
	Place value
	Partitioning
	Number lines
	Compare numbers
	Order numbers
	Unit test 1
	Unit test 2
Unit test 3	
<b>☰ Activities</b>	
<b>Number structure: Whole number &amp; place value</b>	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	
<b>👑 Skill Quests</b>	
<b>Number structures: Numbers to 1,000</b>	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
<b>Number structures: Numbers up to 10,000</b>	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	
<b>☀ New Courses</b>	
<b>Number structure: Whole number</b>	Rounding
	Unit test 1
	Unit test 2
	Unit test 3
<b>Operations: Addition</b>	Rounding strategy +
	Unit test 1
	Unit test 2
	Unit test 3
<b>Operations: Subtraction</b>	Rounding strategy –
	Unit test 1

	Unit test 2
	Unit test 3
<b>Activities</b>	
<b>Number structure: Whole number &amp; place value</b>	Nearest Ten?
	Nearest Hundred?
	Nearest Thousand?
<b>Skill Quests</b>	
<b>Number structures: Round to 10,100,1000</b>	Rounding whole numbers to 10,000

Rounding tenths to the nearest whole number	
<b>Activities</b>	
<b>Teacher directed</b>	
<b>Skill Quests</b>	
<b>Number structures: Round tenths</b>	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	
<b>Activities</b>	
<b>Number structure: Whole number &amp; place value</b>	Counting up in 4s
	Counting up in 6s
	Counting up in 7s
	Counting up in 8s
<b>Skill Quests</b>	
<b>Number structures: Count multiples</b>	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	
<b>Activities</b>	
<b>Teacher directed</b>	
<b>Skill Quests</b>	
<b>Number structures: Count 10s 100 &amp; 1,000</b>	Counting in 10s & 100s
	Counting in 1,000s

## Operations

Adding and subtracting up to four-digit numbers	
<b>New Courses</b>	
<b>Operations: Addition</b>	Make easier additions
	Split strategy +
	Partition strategy +
	Bridging strategy +
	Rounding strategy +
	Written methods +
Problem solving with +	

	Unit test 1
	Unit test 2
	Unit test 3
<b>Operations: Subtraction</b>	Using addition to subtract
	Split strategy –
	Partition strategy –
	Bridging strategy –
	Rounding strategy –
	Written methods -
	Problem-solving with + –
	Unit test 1
	Unit test 2
	Unit test 3
<b>Activities</b>	
<b>Operations: Addition &amp; subtraction</b>	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
	Repertition to Subtract
	Subtract Numbers: Regroup
<b>Skill Quests</b>	
<b>Operations: Add &amp; subtract</b>	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
<b>Operations: Add &amp; subtract vertically</b>	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

<b>New Courses</b>	
<b>Operations: Multiplication</b>	Multiplication facts
	Unit test 1
	Unit test 2
	Unit test 3
<b>Operations: Division</b>	Arrays and division facts
	Division facts to 10 x 10
	Unit test 1
	Unit test 2
	Unit test 3
<b>Activities</b>	
<b>Operations: Multiplication &amp; division</b>	Grouping in Sixes

	Grouping in Eights
	Grouping in Nines
	Bar Model $\times \div$
	Dividing Sixes
	Dividing Eights
	Dividing Nines
	Times Tables
	Related Facts 2
	Multiplication Turn-Abouts
	Multiply: 1-Digit Number

### Skill Quests

<b>Operations: Facts to 10 x 10 (<math>\times \div</math>)</b>	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

### New Courses

<b>Operations: Multiplication</b>	Doubling and tripling
	Multiply with tens and hundreds
	Unit test 1
	Unit test 2
	Unit test 3

### Activities

<b>Operations: Multiplication &amp; division</b>	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

<b>Operations: Multiplication strategies</b>	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

### New Courses

<b>Operations: Multiplication</b>	Doubling and tripling
	Multiply with tens and hundreds
	Multiply larger numbers
	Problem-solving with $\times$

	Unit test 1
	Unit test 2
	Unit test 3
<b>Activities</b>	
<b>Operations: Multiplication &amp; division</b>	Multiply 3 single-digit numbers
	Multiply: 2-Digit by 1-Digit
	Grid Methods 1
	Multiply Multiples of 10
	Estimate Products
<b>Measuring, perimeter, area, volume &amp; time</b>	Time Conversions: Whole Numbers 1
<b>Skill Quests</b>	
<b>Operations: Multiply by 2- &amp; 3-digits</b>	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. $65 \div 5$ )	
<b>New Courses</b>	
<b>Operations: Division</b>	Different groupings
	Problem solving with $\div$
	Halves, quarters, thirds, fifths, tenths
	Unit test 1
	Unit test 2
	Unit test 3
<b>Activities</b>	
<b>Operations: Multiplication &amp; division</b>	Halve it!
	Estimate Quotients
<b>Measuring, perimeter, area, volume &amp; time</b>	Time Conversions: Whole Numbers 1
<b>Skill Quests</b>	
<b>Operations: Division strategies</b>	Relating multiplication & division facts
	Exploring division to $10 \times 10$ using models
	Dividing by 1
	Dividing using place value & known facts

## Rational numbers

Reading, writing, and representing tenths as fractions and decimals	
<b>New Courses</b>	
<b>Rational numbers: Fractions and decimals</b>	Unit fractions
	Proper fractions
	Decimal tenths
	Unit test 1
	Unit test 2
	Unit test 3
<b>Activities</b>	
<b>Teacher directed</b>	
<b>Skill Quests</b>	
<b>Rational numbers: Tenths</b>	Representing & counting in tenths

	Understanding decimal tenths
	Connecting decimals & fractions

Comparing and ordering tenths as fractions and decimals	
 <b>New Courses</b>	
<b>Rational numbers: Fractions and decimals</b>	Decimal tenths
 <b>Activities</b>	
Teacher directed	
 <b>Skill Quests</b>	
<b>Rational numbers: Compare &amp; order tenths</b>	Comparing & ordering tenths

Memorising and using the decimal equivalent of $\frac{1}{2}$ and fractions with denominators of 10	
 <b>Activities</b>	
Teacher directed	
 <b>Skill Quests</b>	
Teacher directed	

Dividing one- and two-digit whole numbers by 10 to make decimals and identify tenths	
 <b>Activities</b>	
Teacher directed	
 <b>Skill Quests</b>	
<b>Rational numbers: Divide numbers by 10</b>	Finding unit fractions of sets

Multiplying decimal tenths by 10	
 <b>Activities</b>	
Teacher directed	
 <b>Skill Quests</b>	
Teacher directed	

Comparing and ordering fractions with the same numerator or same denominator	
 <b>Activities</b>	
<b>Rational numbers: Fractions</b>	Comparing Fractions 1
	Compare fractions 1b
 <b>Skill Quests</b>	
<b>Rational numbers: Compare &amp; order frac</b>	Comparing & ordering fractions same denominators
	Comparing & ordering fractions same numerators

Relating fractions, improper fractions, and mixed numbers to their position on a number line	
 <b>New Courses</b>	
<b>Rational numbers: Fractions and decimals</b>	Mixed numbers and improper fractions
	Unit test 1
	Unit test 2
	Unit test 3
 <b>Activities</b>	

<b>Rational numbers: Fractions</b>	Identifying Fractions on a Number Line
	Mixed and Improper Fractions on a Number Line
<b>👑 Skill Quets</b>	
<b>Rational numbers: Improper &amp; mixed</b>	Converting improper fractions & mixed numbers

Identifying when two fractions are equivalent, using representations	
<b>☀ New Courses</b>	
<b>Rational numbers: Fractions and decimals</b>	Equivalence
	Mixed numbers and improper fractions
	Unit test 1
	Unit test 2
<b>☰ Activities</b>	
<b>Rational numbers: Fractions</b>	Mixed and Improper Fractions on a Number Line
	Equivalent Fractions on a Number line 1
	What Mixed Number Is Shaded?
<b>👑 Skill Quets</b>	
<b>Rational numbers: Equivalent fractions</b>	Finding equivalent fractions using models

Adding and subtracting fractions with the same denominators, including beyond a whole	
<b>☀ New Courses</b>	
<b>Rational numbers: Fractions and decimals</b>	Unit fractions
	Fractions and wholes
<b>☰ Activities</b>	
<b>Rational numbers: Fractions</b>	Add: Common Denominator
<b>👑 Skill Quets</b>	
<b>Add/subtract- same denominators</b>	Adding & subtracting fractions up to 1
	Adding & subtracting fractions beyond 1

Adding and subtracting decimals to one decimal place (e.g. $1.3 + 0.2 = 1.5$ )	
<b>☰ Activities</b>	
<b>Teacher directed</b>	
<b>👑 Skill Quets</b>	
<b>Rational numbers: Decimal tenths + -</b>	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)	
<b>☀ New Courses</b>	
<b>Operations: Multiplication</b>	Doubling and tripling
<b>☰ Activities</b>	
<b>Teacher directed</b>	
<b>👑 Skill Quets</b>	
<b>Rational numbers: Scaling</b>	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. $\frac{1}{4}$ of 400)	
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 <b>New Courses</b>	
<b>Rational numbers: Fractions and decimals</b>	Unit fractions and sets
	Unit test 1
	Unit test 2
	Unit test 3
 <b>Activities</b>	
<b>Rational numbers: Fractions</b>	Fraction Length Models 1
	Unit fractions
	Fractions of a Collection 1
 <b>Skill Quests</b>	
<b>Rational numbers: Unit fractions of sets</b>	Finding unit fractions of sets

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

 <b>New Courses</b>	
<b>Rational numbers: Fractions and decimals</b>	Fractions and wholes
	Unit fractions and sets
	Unit test 1
	Unit test 2
	Unit test 3
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Rational numbers: Find the whole</b>	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

 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Financial maths: Calculate change</b>	Calculating change

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

 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Financial maths: Make money amounts</b>	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?; $4200 - \underline{\quad} = 4001$ )	
 <b>Activities</b>	
<b>Algebra: Equations &amp; relationships</b>	Bar Model Problems 2
	Missing values
 <b>Skill Quests</b>	
<b>Equations: Add/sub open number sentences</b>	Completing 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?; $\underline{\quad} \div 10 = 12$ )	
 <b>Activities</b>	
<b>Algebra: Equations &amp; relationships</b>	Fact Families: Multiply and Divide
	Missing Numbers: $\times$ and $\div$ facts
 <b>Skill Quests</b>	
<b>Equations: Mult/div open number sentence</b>	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...)	
 <b>New Courses</b>	
<b>Number structure: Whole number</b>	Addition patterns 1
	Addition patterns 2
	Subtraction patterns 1
	Subtraction patterns 2
	Unit test 1
	Unit test 2
	Unit test 3
 <b>Activities</b>	
<b>Algebra: Equations &amp; relationships</b>	Increasing patterns
	Decreasing Patterns
	Counting on a 100 grid
 <b>Skill Quests</b>	
<b>Relationships: Growing number patterns</b>	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	
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Teacher directed</b>	

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)

 **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 Quets**

<b>Measuring: Measure in cm &amp; m</b>	Measuring in m & cm
<b>Measuring: Length in mm, cm &amp; m</b>	Introducing millimetres
<b>Measuring: Appropriate units of length</b>	Selecting appropriate units of length
<b>Measuring: Measure mass (g &amp; kg)</b>	Measuring mass in g & kg
<b>Measuring: Appropriate units of mass</b>	Selecting appropriate units of mass
<b>Measuring: Measure capacity (litres)</b>	Measuring in litres
<b>Measuring: Apply metric measures</b>	Using appropriate metric measures

Measuring temperature in degrees Celsius

 **Activities**

**Measuring, perimeter, area, volume & time**

What's the Temperature (Celsius)?

 **Skill Quets**

**Measuring: Measure temperature**

- Introducing thermometers
- Measuring temperature

Measuring the perimeter of polygons using metric units (mm, cm, and m)

 **Activities**

**Measuring, perimeter, area, volume & time**

Perimeter of shapes

 **Skill Quets**

**Measuring: Perimeter**

Measuring perimeter in cm

Measuring the areas of irregular shapes covered with squares and half squares

 **Activities**

**Teacher directed**

 **Skill Quets**

**Measuring: Area of irregular shapes**

Activity

Calculating the areas of rectangular figures (including squares) using multiplication of side lengths

 **Activities**

**Measuring, perimeter, area, volume & time**

Area of Shapes

 **Skill Quets**

**Measuring: Area using multiplication**

Calculating area using multiplication

Measuring the volumes of rectangular 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 angles 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 analogue 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	
Measuring: Units of time (hr, min, sec)	Exploring units of time (hr, min, sec)
	Working with mixed 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
<b>👑 Skill Quests</b>	
<b>Shapes: Symmetry in shapes</b>	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	
<b>☰ Activities</b>	
<b>Geometry: Shape, space &amp; pathways</b>	Select the Objects
	Relate Shapes and Solids
	How Many Faces?
<b>👑 Skill Quests</b>	
<b>Spatial reasoning: Shapes in 3D objects</b>	Comparing faces of 3D objects with 2D shapes

Performing one-step transformations (reflections, translations, rotations) on 2D shapes	
<b>☰ Activities</b>	
<b>Geometry: Shape, space &amp; pathways</b>	Flip, Slide, Turn
<b>👑 Skill Quests</b>	
<b>Spatial reasoning: Transformations</b>	Identifying transformations

## Pathways

Use alphanumeric and general grid references to identify regions and plot positions on a grid map	
<b>☰ Activities</b>	
<b>Geometry: Shape, space &amp; pathways</b>	Using a Key
	Map Coordinates
<b>👑 Skill Quests</b>	
<b>Pathways: Grid references</b>	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?)	
<b>☰ Activities</b>	
<b>Teacher directed</b>	
<b>👑 Skill Quests</b>	
<b>Data: Collecting numerical data</b>	Asking questions, collecting & recording data

### Visualisation of data

Creating dot-plot or bar-graph data visualisations	
<b>☰ Activities</b>	
<b>Teacher directed</b>	
<b>👑 Skill Quests</b>	

<b>Data: Creating data visualisations</b>	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	
 <b>Activities</b>	
<b>Statistics</b>	Dot Plots
 <b>Skill Quests</b>	
<b>Teacher directed</b>	

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

Interpreting data visualisations	
 <b>Activities</b>	
<b>Statistics</b>	Tally Charts
	Bar Chart
	Interpreting Tables
 <b>Skill Quests</b>	
<b>Data: Interpret data visualisations</b>	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?)	
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Teacher directed</b>	

# 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	
 <b>New Courses</b>	
<b>Number structure: Whole number</b>	Numbers to 1,000,000
	Place value
	Partitioning
	Number lines
	Compare numbers
	Order numbers
	Unit test 1
	Unit test 2
Unit test 3	
 <b>Activities</b>	
<b>Number structure: Whole numbers &amp; place value</b>	Numbers from Words to Digits 1
	Numbers from Words to Digits 2
	Place Value to Millions
	Expanded Notation
	Place Value Partitioning
 <b>Skill Quests</b>	
<b>Number structures: Numbers to 1,000,000</b>	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	
 <b>New Courses</b>	
<b>Operations: Multiplication</b>	Multiples
	Factors
	Unit Test 1
	Unit Test 2
	Unit Test 3
 <b>Activities</b>	
<b>Operations: Multiplication &amp; division</b>	Find the Factor
	Multiples of
 <b>Skill Quests</b>	
<b>Number structures: Factor pairs</b>	Factors up to 100

Rounding whole numbers to the nearest hundred thousand, ten thousand, thousand, hundred, or ten	
 <b>New Courses</b>	
<b>Number structure: Whole number</b>	Rounding
	Unit test 1
	Unit test 2
	Unit test 3
<b>Operations: Addition</b>	Rounding strategy +

	Unit Test 1
	Unit Test 2
	Unit Test 3
<b>Operations: Subtraction</b>	Rounding strategy -
	Unit Test 1
	Unit Test 2
	Unit Test 3
<b>Activities</b>	
Teacher directed	
<b>Skill Quests</b>	
Teacher directed	

Counting backwards through 0 to include negative whole numbers	
<b>Activities</b>	
<b>Number structure: Whole numbers &amp; place value</b>	Integers on a Number Line
<b>Skill Quests</b>	
<b>Number structures: Count back through 0</b>	Placing integers on a number line

## Operations

Adding and subtracting increasingly large whole numbers	
<b>New Courses</b>	
<b>Operations: Addition</b>	Make 10, 100 or 1000
	Split strategy +
	Partition strategy +
	Bridging strategy +
	Rounding strategy +
	Written methods +
	Problem-solving with +
	Unit test 1
	Unit test 2
	Unit test 3
<b>Operations: Subtraction</b>	Using addition to subtract
	Split strategy –
	Partition strategy –
	Bridging strategy –
	Rounding strategy –
	Written methods -
	Problem-solving with + –
	Unit test 1
	Unit test 2
	Unit test 3
<b>Activities</b>	
<b>Operations: Addition &amp; subtraction</b>	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
<b>👑 Skill Quests</b>	
<b>Operations: Add larger numbers</b>	Adding & subtracting multiples of 100
	Choosing efficient mental strategies
<b>Operations: Estimation + -</b>	Rounding & estimating with addition
	Rounding & estimating with subtraction
<b>Operations: Properties of addition</b>	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	
<b>☀️ New Courses</b>	
<b>Operations: Multiplication</b>	Multiplication facts to 12 x 12
	Problem-solving with x
	Unit test 1
	Unit test 2
	Unit test 3
<b>Operations: Division</b>	Division facts to 12 x 12
	Unit test 1
	Unit test 2
	Unit test 3
<b>📋 Activities</b>	
<b>Operations: Multiplication &amp; division</b>	Multiplication Facts
	Division Facts 1
	Bar Model $\times \div$
<b>👑 Skill Quests</b>	
<b>Operations: Facts to 12 x 12 (<math>\times \div</math>)</b>	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	
<b>☀️ New Courses</b>	
<b>Operations: Multiplication</b>	Doubling and tripling
	Multiples of 10 and 100
	Partition strategy x
	Area model
	Equivalent multiplication facts
	Problem-solving with x
	Unit test 1
	Unit test 2
Unit test 3	
<b>📋 Activities</b>	
<b>Operations: Multiplication &amp; division</b>	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
<b>👑 Skill Quests</b>	
<b>Operations: Multiplication strategies</b>	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
<b>Operations: Mental strategies (x ÷)</b>	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	
<b>🌟 New Courses</b>	
<b>Operations: Multiplication</b>	Partition strategy x
	Area model
	Unit test 1
	Unit test 2
	Unit test 3
<b>📄 Activities</b>	
<b>Operations: Multiplication &amp; division</b>	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
<b>👑 Skill Quests</b>	
<b>Operations: Multiplication algorithms</b>	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)	
<b>🌟 New Courses</b>	
<b>Operations: Division</b>	Multiples of 10 and 100
	Partition strategy ÷
	Area model
	Exploring remainders
	Problem-solving with ÷
	Unit Test 1

	Unit Test 2
	Unit Test 3
<b>Activities</b>	
<b>Operations: Multiplication &amp; division</b>	Halve it!
	Remainders by Arrays
	Estimate Quotients
<b>Skill Quests</b>	
<b>Operations: Remainders in division</b>	Introducing remainders in division
<b>Operations: Division strategies</b>	Dividing using halving & repeated halving
	Dividing using partitioning
<b>Operations: Division algorithms</b>	Dividing using the extended algorithm
	Dividing using the contracted algorithm

## Rational numbers

Reading, writing, and representing tenths and hundredths as fractions and decimals	
<b>New Courses</b>	
<b>Rational numbers: Decimals &amp; percentages</b>	Decimal tenths
	Decimal hundredths
	Place value to hundredths
	Partitioning decimals
	Tenths on the number line
	Hundredths on the number line
	Fractions and decimals
	Unit test 1
	Unit test 2
	Unit test 3
<b>Activities</b>	
<b>Rational numbers: Decimals &amp; percentages</b>	Decimal Place Value
	Decimals from Words to Digits 1
	Decimals on the Number Line
<b>Skill Quests</b>	
<b>Rational numbers: Tenths &amp; hundredths</b>	Tenths as fractions & decimals
	Introducing hundredths as fractions & decimals
	Representing tenths & hundredths
	Connecting tenths & hundredths

Comparing tenths and hundredths as fractions or decimals	
<b>New Courses</b>	
<b>Rational numbers: Decimals &amp; percentages</b>	Fractions and decimals
<b>Activities</b>	
Teacher directed	
<b>Skill Quests</b>	
Teacher directed	

Comparing and ordering numbers with up to two decimal places (e.g. $0.12 < 0.2$ , $3.55 < 3.84$ )	
<b>Activities</b>	
<b>Rational numbers: Decimals &amp; percentages</b>	Decimal Order 1

	Comparing Decimals 1
<b>👑 Skill Quests</b>	
<b>Rational numbers: Compare decimals</b>	Comparing & ordering tenths & hundredths

Memorising and using decimal equivalents of $\frac{1}{2}$ , $\frac{1}{4}$ , and $\frac{3}{4}$ and fractions with denominators of 10 or 100	
<b>☰ Activities</b>	
<b>Rational numbers: Decimals &amp; percentages</b>	Convert Decimals to Fractions 2
<b>👑 Skill Quests</b>	
<b>Rational numbers: Decimal equivalence</b>	Decimal equivalents for $\frac{1}{2}$ , $\frac{1}{4}$ & $\frac{3}{4}$

Converting common percentages (10%, 25%, 50%) to fractions and decimals	
<b>☀ New Courses</b>	
<b>Rational numbers: Decimals &amp; percentages</b>	Fractions and percentages
	Unit test 1
	Unit test 2
	Unit test 3
<b>☰ Activities</b>	
<b>Teacher directed</b>	
<b>👑 Skill Quests</b>	
<b>Rational numbers: Common percentages</b>	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	
<b>☀ New Courses</b>	
<b>Rational numbers: Decimals &amp; percentages</b>	Divide by 10 or 100
	Unit test 1
	Unit test 2
	Unit test 3
<b>☰ Activities</b>	
<b>Measuring, perimeter, area, volume &amp; time</b>	Centimetres and Metres
<b>👑 Skill Quests</b>	
<b>Rational numbers: Divide by 10 &amp; 100</b>	Dividing whole numbers by 10 & 100

Multiplying numbers with up to two decimal places by 10 and 100	
<b>☰ Activities</b>	
<b>Measuring, perimeter, area, volume &amp; time</b>	Centimetres and Metres
<b>👑 Skill Quests</b>	
<b>Rational numbers: Multiply by 10 &amp; 100</b>	Multiplying decimal numbers by 10 & 100

Comparing fractions where one denominator is a multiple of the other	
<b>☀ New Courses</b>	
<b>Rational numbers: Fractions</b>	Compare and order fractions
	Unit test 1

	Unit test 2
	Unit test 3
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quets</b>	
<b>Rational numbers: Compare/order frac</b>	Comparing & ordering fractions

Recognising families of equivalent fractions	
 <b>New Courses</b>	
<b>Rational numbers: Fractions</b>	Proper fractions
	Equivalence
	Unit test 1
	Unit test 2
	Unit test 3
 <b>Activities</b>	
<b>Rational numbers: Fractions</b>	Equivalent Fraction Wall 1
	Simplify Fractions
	Uneven partitioned shapes 2
 <b>Skill Quets</b>	
<b>Rational numbers: Equivalent fractions</b>	Equivalent fractions up to & greater than 1

Recognising equivalent mixed numbers and improper fractions	
 <b>New Courses</b>	
<b>Rational numbers: Fractions</b>	Counting by fractions
	Improper fractions to mixed numbers
	Mixed numbers to improper fractions
	Unit test 1
	Unit test 2
	Unit test 3
 <b>Activities</b>	
<b>Rational numbers: Fractions</b>	Counting with Fractions on a Number Line
	Mixed and Improper Fractions on a Number Line
 <b>Skill Quets</b>	
<b>Teacher directed</b>	

Adding and subtracting fractions with the same denominator or when one denominator is a multiple of the other, including improper fractions (e.g. $2/3+1/9=7/9$ )	
 <b>New Courses</b>	
<b>Rational numbers: Fractions</b>	Add fractions
	Subtract fractions
	Unit test 1
	Unit test 2
	Unit test 3
 <b>Activities</b>	
<b>Rational numbers: Fractions</b>	Common Denominator
	Subtract Like Fractions
	Add: No Common Denominator
	Subtract: No Common Denominator

 Skill Quests	
<b>Rational numbers: Add/subtract fractions</b>	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	
<b>Rational numbers: Decimals &amp; percentages</b>	Decimal Complements
	Magic Symbols 2
<b>Measuring, perimeter, area, volume &amp; time</b>	Calculate Perimeter of Squares and Rectangles
	Perimeter: Triangles
 Skill Quests	
<b>Rational numbers: Add/subtract decimals</b>	Review adding/subtracting decimals to 1 place
	Adding/subtracting decimals to 2 places
	Adding/subtracting decimals word problems

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 24)	
 Activities	
<b>Rational numbers: Fractions</b>	Fraction Fruit Sets 1
	Fractions of a Collection 2
	Fraction Length Models 2
	Fraction Word Problems
 Skill Quests	
<b>Rational numbers: Fraction of a quantity</b>	Finding a fraction of a whole number

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	
<b>Rational numbers: Fractions</b>	Fraction Word Problems
 Skill Quests	
<b>Rational numbers: Find the whole</b>	Identifying a whole set from a fraction

Finding common percentages (10%, 25%, 50%) of whole numbers	
 New Courses	
<b>Rational numbers: Decimals &amp; percentages</b>	Percentages of an amount
	Unit test 1
	Unit test 2
	Unit test 3
 Activities	
<b>Rational numbers: Decimals &amp; percentages</b>	Modelling Percentages
	Calculating percentages (Mental)
 Skill Quests	
<b>Rational numbers: Common percentages</b>	Finding common percentages of whole numbers

Finding the whole (100%) when given 25% or 50%	
 <b>New Courses</b>	
<b>Rational numbers: Decimals &amp; percentages</b>	Percentages of an amount
	Unit test 1
	Unit test 2
	Unit test 3
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Teacher directed</b>	

## Financial mathematics

Calculating the total cost of items costing dollars and cents and the change from the nearest ten dollars	
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Financial maths: Calculate cost</b>	Calculating costs of items & change

Representing currency values of mixed dollars and cents using decimal notation	
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Financial maths: Represent money</b>	Representing money

Rounding dollar amounts to the nearest dollar	
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Financial maths: Round dollar amounts</b>	Rounding dollar amounts

## Algebra

### Equations & relationships

Completing number sentences that involve addition and subtraction by using equality (=) and inequality (<, >) symbols (e.g. $2,456 + 203,938$ ( ) $3,456 + 231,930$ ; $2,456 \times 2$ ( ) $1,228 \times 4$ )	
 <b>New Courses</b>	
<b>Patterns and equivalence</b>	Are these equivalent? + -
	Problem solving using equivalence
	Unit test 1
	Unit test 2
 <b>Activities</b>	
<b>Equations &amp; relationships</b>	Find the missing number 2
 <b>Skill Quests</b>	
<b>Equations: Equality addition/subtraction</b>	Comparing numbers using equality symbols

Checking the truth of number sentences and completing open number sentences (e.g.  $999,999 - \underline{\quad} = 899,999$ )

### New Courses

<b>Patterns and equivalence</b>	Unknown values + -
	Are these equivalent? + -
	Unknown values x ÷
	Are these equivalent? x ÷
	Problem solving using equivalence
	Unit Test 1
	Unit Test 2
Unit Test 3	

### Activities

<b>Equations &amp; relationships</b>	Multiply and Divide Problems 1
	Equivalent facts - multiply

### Skill Quets

<b>Equations: Open number sentences</b>	Solving open number sentences
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Recognising, continuing, creating, and describing growing patterns that change by a constant amount (e.g. 3, 4.5, 6, 7.5 ...)

### New Courses

<b>Patterns and equivalence</b>	Addition patterns
	Subtraction patterns
	Multiplication patterns
	Unit test 1
	Unit test 2
Unit test 3	

### Activities

<b>Equations &amp; relationships</b>	Pick the Next Number
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### Skill Quets

<b>Relationships: Patterns</b>	Recognising & continuing growing patterns
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## 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

<b>Measuring, perimeter, area, volume &amp; time</b>	Which Unit of Measurement?
	Centimetres and Metres
	Measuring Length
	How Heavy?

### Skill Quets

<b>Measuring: Measuring: Length</b>	Introducing kilometres
	Measuring & recording in mm, cm, m, km
<b>Measuring: Mass</b>	Measuring & recording in g, kg
<b>Measuring: Temperature</b>	Measuring & recording temperature
<b>Measuring: Capacity</b>	Estimating & measuring in mL & L

Converting metric units of length (m and cm)	
 <b>Activities</b>	
<b>Measuring, perimeter, area, volume &amp; time</b>	Centimetres and Metres
 <b>Skill Quests</b>	
<b>Measuring: Converting units of length</b>	Converting units of length (m & cm)

Approximating the areas of irregular shapes covered with squares, half squares, and partial squares	
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Measuring: Area non-rectilinear shapes</b>	Calculating areas of non-rectilinear shapes

Calculating the areas of rectangles (including squares) using multiplication of side lengths	
 <b>Activities</b>	
<b>Measuring, perimeter, area, volume &amp; time</b>	Calculate Areas of Squares and Rectangles
 <b>Skill Quests</b>	
<b>Measuring: Area using multiplication</b>	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	
 <b>Activities</b>	
<b>Measuring, perimeter, area, volume &amp; time</b>	How many Blocks?
 <b>Skill Quests</b>	
<b>Measuring: Volume using cubes</b>	Calculating volumes using cubes

Calculating the perimeters of regular polygons and other 2D shapes with straight sides	
 <b>Activities</b>	
<b>Measuring, perimeter, area, volume &amp; time</b>	Calculate Perimeter of Squares and Rectangles
	Perimeter: Triangles
	Perimeter Detectives 1
 <b>Skill Quests</b>	
<b>Measuring: Perimeter</b>	Calculating perimeter

Recognising that shapes with the same area can have different perimeters, and vice versa	
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Measuring: Perimeter &amp; area</b>	Perimeter & area of rectangles & squares

Describing and classifying angles and turns using the terms acute, right, obtuse, straight, and reflex	
 <b>Activities</b>	
<b>Measuring, perimeter, area, volume &amp; time</b>	Comparing Angles
	Right Angle Relation
	What Type of Angle 2?

<b>👑 Skill Quests</b>	
<b>Measuring: Identify &amp; classify angles</b>	Understanding angle concepts
	Introducing right angles
	Classifying angles

Classifying and constructing angles up to 180°, using a protractor	
<b>☰ Activities</b>	
<b>Teacher directed</b>	
<b>👑 Skill Quests</b>	
<b>Measuring: Measure &amp; estimate angles</b>	Measuring & estimating angles

Telling the time on analogue and digital clocks	
<b>☰ Activities</b>	
<b>Measuring, perimeter, area, volume &amp; time</b>	What is the Time?
<b>👑 Skill Quests</b>	
<b>Measuring: Tell time</b>	Telling time to the minute & second

Finding the duration of periods of time involving a.m. and p.m. notation and 24-hour time	
<b>☰ Activities</b>	
<b>Measuring, perimeter, area, volume &amp; time</b>	24 Hour Time
	Time Mentals
<b>👑 Skill Quests</b>	
<b>Measuring: Find the duration</b>	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	
<b>☰ Activities</b>	
<b>Shape, space &amp; pathways</b>	Faces, Edges and Vertices
	What Prism am I?
<b>👑 Skill Quests</b>	
<b>Shapes: Properties of prisms</b>	Classifying & sorting prisms by features

Identifying parallel and perpendicular lines, including those forming the sides of polygons	
<b>☰ Activities</b>	
<b>Shape, space &amp; pathways</b>	What Line am I?
<b>👑 Skill Quests</b>	
<b>Shapes: Parallel &amp; perpendicular lines</b>	Identify & describe parallel & perpendicular lines

## Spatial reasoning

Connecting 3D shapes with nets	
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Spatial reasoning: Nets</b>	Exploring nets of prisms

Describing the transformations performed (reflections, translations, rotations) on 2D shapes	
 <b>Activities</b>	
<b>Shape, space &amp; pathways</b>	Transformations
	Rotational Symmetry of Shapes
 <b>Skill Quests</b>	
<b>Spatial reasoning: Transformations</b>	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	
 <b>Activities</b>	
<b>Shape, space &amp; pathways</b>	What Direction was That?
	Coordinate Meeting Place
 <b>Skill Quests</b>	
<b>Pathways: Positions &amp; pathways on maps</b>	Compass directions
	Using grid references
	Using simple scales on maps

## Statistics

### Developing knowledge from data

Collecting continuous numerical data by taking measurements, and then applying specified rounding rules	
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Data: Collect &amp; sort data</b>	Understanding how to collect & sort data

Collecting bivariate data with two categorical variables (e.g. what students in our class do at lunch time, and their gender)	
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Data: Collect bivariate data</b>	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)	
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Data: Create tables for data</b>	Using tables to display data

Creating clustered bar graphs for paired categorical data	
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Data: Bar graphs</b>	Creating 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	
 <b>Activities</b>	
<b>Statistics &amp; probability</b>	Line Graphs: Reading Histograms
 <b>Skill Quests</b>	
<b>Teacher directed</b>	

Answering questions about bivariate data in which a specific category in one variable appears more frequently than a specific category in another variable	
 <b>Activities</b>	
<b>Statistics &amp; probability</b>	Interpreting Tables
 <b>Skill Quests</b>	
<b>Teacher directed</b>	

Interpreting data visualisations	
 <b>Activities</b>	
<b>Statistics &amp; probability</b>	Interpreting Tables Bar Graphs 1 Line Graphs: Reading Histograms
 <b>Skill Quests</b>	
<b>Statistics: Interpret data displays</b>	Using & evaluating data displays

## Probability

### Experimental probability

Conducting repeated chance experiments or games, identifying the outcomes, and describing differences between them using likelihood vocabulary	
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Probability: Experiments</b>	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)	
 <b>Activities</b>	
<b>Statistics &amp; probability</b>	What are the Chances?
 <b>Skill Quests</b>	
<b>Probability: Likelihood</b>	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 $\frac{1}{2}$ and 1 as 'likely' or 'very likely')	
 <b>Activities</b>	
<b>Statistics &amp; probability</b>	Probability Scale
 <b>Skill Quests</b>	
<b>Probability: Number line</b>	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

#### New Courses

##### Number structure: Number

Represent numbers

Place value

Partitioning

Using number lines

Compare numbers

Order numbers

Unit test 1

Unit test 2

Unit test 3

#### 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

#### New Courses

##### Number structure: Number properties

Multiples

Factors

Unit test 1

Unit test 2

Unit test 3

#### 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

#### New Courses

##### Number structure: number

Rounding whole numbers

Unit test 1

Unit test 2

Unit test 3

 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quets</b>	
<b>Number structures: Round to powers of 10</b>	Rounding whole numbers to powers of 10

Rounding hundredths to the nearest whole number or tenth	
 <b>Activities</b>	
<b>Rational numbers: Fractions &amp; decimals</b>	Nearest Whole Number
	Rounding Decimals 1
 <b>Skill Quets</b>	
<b>Number structures: Round hundredths</b>	Rounding hundredths, nearest tenth or whole number

Recognising square and cube numbers and the notation for squared (2) and cubed (3)	
 <b>New Courses</b>	
<b>Number structure: Number properties</b>	Square numbers
	Unit test 1
	Unit test 2
	Unit test 3
 <b>Activities</b>	
<b>Number structure: Whole number &amp; place value</b>	Square Roots
 <b>Skill Quets</b>	
<b>Number structures: Recognise square/cube</b>	Recognising square numbers
	Recognising cube numbers

Memorising the square numbers to 144 and cube numbers to 125	
 <b>New Courses</b>	
<b>Number structure: Whole number</b>	Square numbers
	Unit test 1
	Unit test 2
	Unit test 3
 <b>Activities</b>	
<b>Number structure: Whole number &amp; place value</b>	Square Roots
 <b>Skill Quets</b>	
<b>Number structures: Find squares &amp; cubes</b>	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)	
 <b>New Courses</b>	
<b>Number structure: Number</b>	Integers on the number line
	Unit test 1
	Unit test 2
	Unit test 3
 <b>Activities</b>	
<b>Number structure: Whole number &amp; place value</b>	Integers on a Number Line
 <b>Skill Quets</b>	
<b>Number structures: Integers</b>	Comparing & ordering positive & negative numbers

## Operations

Calculating expressions using the order of operations	
 <b>New Courses</b>	
<b>Patterns and equivalence</b>	Unknown values - order of operations
	Are these equivalent? Order of operations
	Unit test 1
	Unit test 2
	Unit test 3
 <b>Activities</b>	
<b>Operations: Multiplication &amp; division</b>	Order of operations 1
 <b>Skill Quests</b>	
<b>Operations: Order of operations</b>	Order of operations

Adding and subtracting any whole numbers	
 <b>New Courses</b>	
<b>Operations: Addition and Subtraction</b>	Addition strategies
	Addition
	Subtraction strategies
	Subtraction
	Problem solving + –
	Unit Test 1
	Unit Test 2
Unit Test 3	
 <b>Activities</b>	
<b>Operations: Addition &amp; subtraction</b>	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
 <b>Skill Quests</b>	
<b>Operations: Add &amp; subtract whole numbers</b>	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. $542 \times 12$ )	
 <b>New Courses</b>	
<b>Operations: Multiplication and division</b>	Multiplication strategies
	Multiples and powers of 10 x
	Multiply by one digit
	Multiply by two digits
	Problem solving with $x \div$
	Unit test 1
	Unit test 2
Unit test 3	

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	
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.  $1283 \div 5 = 256$ , remainder 3)

New Courses	
Operations: Multiplication and division	Multiples and powers of 10 $\div$
	Division strategies
	Division
	Division with remainders
	Problem solving with $x \div$
	Unit Test 1
	Unit Test 2
Unit Test 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
Skill Quests	
Operations: Mental strategies ( $\div$ )	Dividing using factors
	Dividing using partitioning
Operations: Vertical strategies ( $\div$ )	Dividing using long division
	Dividing using standard written method
	Division using standard written method 2
Operations: Solve problems ( $\div$ )	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  $31 \div 6 = 5 \frac{1}{6}$ )

Activities	
Teacher directed	
Skill Quests	
Teacher directed	

Representing remainders from division as whole numbers, fractions, or rounded decimals, as appropriate to the context	
 <b>New Courses</b>	
<b>Operations: Multiplication and division</b>	Division with remainders
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Operations: Representing remainders</b>	Representing remainders as whole numbers
	Representing remainders as fractions

## Rational numbers

Reading, writing, and representing tenths, hundredths, and thousandths as fractions and decimals	
 <b>New Courses</b>	
<b>Rational numbers: Decimals</b>	Tenths
	Hundredths
	Thousandths
	Decimals on the number line
	Unit test 1
	Unit test 2
	Unit test 3
 <b>Activities</b>	
<b>Rational numbers: Fractions &amp; decimals</b>	Decimal place value
	Decimals from Words to Digits 2
	Decimals to Fractions 1
 <b>Skill Quests</b>	
<b>Rational numbers: Decimals - thousandths</b>	Tenths, hundredths & thousandths
	Understanding & modelling decimals to thousandths

Comparing and ordering numbers with up to three decimal places	
 <b>New Courses</b>	
<b>Rational numbers: Decimals</b>	Order and compare decimals
	Unit test 1
	Unit test 2
	Unit test 3
 <b>Activities</b>	
<b>Rational numbers: Fractions &amp; decimals</b>	Comparing Decimals
	Decimal Order
 <b>Skill Quests</b>	
<b>Rational numbers: Compare/order decimals</b>	Compare & order decimals to three places

Memorising decimal and percentage equivalents of common fractions ( $\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{3}{4}$ , $\frac{1}{5}$ , $\frac{2}{5}$ , $\frac{3}{5}$ , $\frac{4}{5}$ ) including fractions with denominators that are 10, or 100	
 <b>New Courses</b>	
<b>Rational numbers: Percentages</b>	Fractions and percentages
	Decimals, fractions and percentages
	Unit test 1
	Unit test 2

	Unit test 3
<b>Activities</b>	
<b>Rational numbers: Fractions, decimals &amp; percents</b>	Common Fractions as Percentages (AU)
	Fractions to Percentages (Non-Calculator)
	Percentages to Fractions (with and without simplification)
	Match Decimals and Percentages
<b>Skill Quests</b>	
<b>Rational numbers: Equivalence</b>	Finding decimal equivalents of common fractions
	Finding percentage equivalents of common fractions

Converting decimal tenths and hundredths to fractions and percentages (e.g. $0.31 = 31/100 = 31\%$ )	
<b>New Courses</b>	
<b>Rational numbers: Percentages</b>	Fractions and percentages
	Decimals, fractions and percentages
	Expressing as a percentage
	Unit test 1
	Unit test 2
Unit test 3	
<b>Activities</b>	
<b>Rational numbers: Fractions, decimals &amp; percents</b>	Decimals to percentages
<b>Skill Quests</b>	
<b>Rational numbers: FDP</b>	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. $1.3 \times 10 = 13$ ) and to identify tenths, hundredths, and thousandths places	
<b>New Courses</b>	
<b>Rational numbers: Decimals</b>	Multiply or divide by 10 or 100
	Unit test 1
	Unit test 2
	Unit test 3
<b>Activities</b>	
<b>Rational numbers: Fractions &amp; decimals</b>	Multiply Decimals 10 100 1000
	Divide Decimals: 10, 100, 1000
<b>Skill Quests</b>	
<b>Rational numbers: Mult/div by 10 &amp; 100</b>	Dividing numbers by 10
	Multiplying numbers by 10, 100 & 1000

Finding equivalent fractions	
<b>New Courses</b>	
<b>Rational numbers: Fractions</b>	Equivalent fractions
	Simplify fractions
	Unit test 1
	Unit test 2
	Unit test 3
<b>Activities</b>	
<b>Rational numbers: Fractions &amp; decimals</b>	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

## New Courses

**Rational numbers: Fractions**

Compare and order fractions

Unit test 1

Unit test 2

Unit test 3

## Activities

**Teacher directed**

## Skill Quests

**Rational numbers: Compare/order frac**

Comparing & ordering fractions

Converting between mixed numbers and improper fractions

## New Courses

**Rational numbers: Fractions**

Compare and order fractions with like denominators

Unit test 1

Unit test 2

Unit test 3

## 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

## New Courses

**Rational numbers: Fractions**

Add and subtract fractions

Add related fractions

Subtract related fractions

Problem-solving with fractions

Unit test 1

Unit test 2

Unit test 3

## Activities

**Rational numbers: Fractions & decimals**

Add: No Common Denominator

Subtract: No Common Denominator

Add Unlike Mixed Numbers

## 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

## New Courses

<b>Rational numbers: Decimals</b>	Add decimals
	Subtract decimals
	Unit test 1
	Unit test 2
	Unit test 3
<b>Activities</b>	
<b>Rational numbers: Fractions &amp; decimals</b>	Add decimals 1
	Subtracting Decimals
<b>Skill Quests</b>	
<b>Rational numbers: Add/sub decimals</b>	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. $\frac{2}{3}$ of 240)	
<b>New Courses</b>	
<b>Rational numbers: Fractions</b>	Find a fraction of an amount
	Problem-solving fractions of amounts
	Unit test 1
	Unit test 2
	Unit test 3
<b>Activities</b>	
<b>Rational numbers: Fractions &amp; decimals</b>	Fraction Word Problems
	Fraction Fruit Sets 2
<b>Skill Quests</b>	
<b>Rational numbers: Fraction of an amount</b>	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. $\frac{3}{4}$ of the set is 90, what is the whole set?)	
<b>New Courses</b>	
<b>Rational numbers: Fractions</b>	Find a fraction of an amount
	Problem-solving fractions of amounts
	Unit test 1
	Unit test 2
	Unit test 3
<b>Activities</b>	
<b>Rational numbers: Fractions &amp; decimals</b>	Fraction Word Problems
<b>Skill Quests</b>	
<b>Rational numbers: Find the whole</b>	Identifying a whole set from a fraction

Finding common percentages (1%, 10%, 20%, 25%, 50%, 75%) of whole numbers	
<b>New Courses</b>	
<b>Rational numbers: Percentages</b>	Percentages of an amount
	Unit Test 1
	Unit Test 2
	Unit Test 3
<b>Activities</b>	
<b>Rational numbers: Fractions, decimals &amp; percents</b>	Calculating percentages (Mental)
	Percentage of an amount using Fractions (<100%)

	Percentage Word Problems
<b>Skill Quests</b>	
<b>Rational numbers: Percent of an amount</b>	Finding a percentage of a whole number

Finding the whole (100%) when given a percentage (e.g. 75% is 24)	
<b>New Courses</b>	
<b>Rational numbers: Percentages</b>	Percentages of an amount
	Unit Test 1
	Unit Test 2
	Unit Test 3
<b>Activities</b>	
<b>Rational numbers: Fractions, decimals &amp; percents</b>	Percentage Word Problems
<b>Skill Quests</b>	
Teacher directed	

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

## Financial mathematics

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

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

## Algebra

### Equations & relationships

Checking the truth of and completing open number sentences that involve all four operations and that include the use of inequalities, respecting the order of operations (e.g. $8 \times 7 \leq 8 \times 5 + 42$ , true or false?)	
<b>New Courses</b>	
<b>Patterns and equivalence</b>	Are these equivalent? Order of operations
	Unit test 1

	Unit test 2
	Unit test 3
<b>Activities</b>	
<b>Algebra: Equations &amp; relationships</b>	Missing Numbers: $x$ and $\div$ facts
	Equivalent Facts: Multiply
	Find the Missing Number 2
	Missing Values
	Magic Symbols 1
<b>Skill Quests</b>	
<b>Equations: Equality &amp; inequality</b>	Using equality & inequality to solve problems

Developing a rule for a growing pattern in words and making conjectures about further elements in the pattern	
<b>New Courses</b>	
<b>Patterns and equivalence</b>	Complete the pattern
	Patterns from words
	Problem solving with patterns
	Unit test 1
	Unit test 2
	Unit test 3
<b>Activities</b>	
<b>Algebra: Equations &amp; relationships</b>	Table of Values
<b>Skill Quests</b>	
<b>Relationships: Growing patterns</b>	Investigating growing patterns

Locating coordinate points on a coordinate plane, including points found on the $x$ - or $y$ -axis	
<b>New Courses</b>	
<b>Patterns and equivalence</b>	Plot the sequence
	Unit test 1
	Unit test 2
	Unit test 3
<b>Activities</b>	
<b>Algebra: Equations &amp; relationships</b>	Coordinate Graphs
	Graphing from a Table of Values
<b>Skill Quests</b>	
<b>Relationships: Locate coordinate points</b>	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	
<b>New Courses</b>	
<b>Patterns and equivalence</b>	Complete the pattern
	Patterns from words
	Problem solving with patterns
	Unit test 1
	Unit test 2
	Unit test 3
<b>Activities</b>	
<b>Algebra: Equations &amp; relationships</b>	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

#### Skill Quests

**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 time-based units or a combination of units

#### Activities

**Teacher directed**

#### Skill Quests

**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)

#### Activities

**Measuring, perimeter, area, volume & time**

Centimetres and Metres

Converting cm and mm

Grams and Kilograms Conversion

#### 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
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Identifying and describing angles at a point, angles on a straight line, and vertically opposite angles, using angle notation	
 <b>Activities</b>	
<b>Measuring, perimeter, area, volume &amp; time</b>	Angles of revolution: Unknown Values
	Vertically Opposite Angles: Unknown Values
 <b>Skill Quests</b>	
<b>Teacher directed</b>	

Reasoning about and finding unknown angles in situations involving angles at a point, angles on a straight line, and vertically opposite angles	
 <b>Activities</b>	
<b>Measuring, perimeter, area, volume &amp; time</b>	Angles of revolution: Unknown Values
	Vertically Opposite Angles: Unknown Values
 <b>Skill Quests</b>	
<b>Measuring: Find unknown angles</b>	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 cm <sup>2</sup> and m <sup>2</sup> ) and the volumes of rectangular prisms (in cm <sup>3</sup> )	
 <b>Activities</b>	
<b>Measuring, perimeter, area, volume &amp; time</b>	Area: Squares and Rectangles
	Volume of Solids and Prisms - 1cm <sup>3</sup> blocks
	Volume: Rectangular Prisms 1
 <b>Skill Quests</b>	
<b>Measuring: Calculate area</b>	Calculating the area of rectangles
	Calculating the area of right-angled triangles
<b>Measuring: Volume using multiplication</b>	Calculating the volume of rectangular prisms

Calculating, estimating, and comparing the volumes of cubes and rectangular prisms using standard units, including cubic centimetres (cm <sup>3</sup> ) and cubic metres (m <sup>3</sup> )	
 <b>Activities</b>	
<b>Measuring, perimeter, area, volume &amp; time</b>	Volume of Solids and Prisms - 1cm <sup>3</sup> blocks
	Volume: Rectangular Prisms 1
 <b>Skill Quests</b>	
<b>Measuring: Volume using standard units</b>	Calculating volumes using standard units

Converting between units of time (h, min, s)	
 <b>Activities</b>	
<b>Measuring, perimeter, area, volume &amp; time</b>	Time Conversions: Whole Numbers 2
 <b>Skill Quests</b>	
<b>Measuring: Convert units of time</b>	Converting units of time (h, min, s)

Measuring duration in both 12- and 24-hour time systems	
 <b>Activities</b>	

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	
 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	
 <b>Activities</b>	
<b>Geometry: Shape, space &amp; pathways</b>	Rotational Symmetry
 <b>Skill Quests</b>	
<b>Shapes: Rotational symmetry</b>	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	
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Spatial reasoning: Tessellations</b>	Recognising tessellations
	Creating patterns using transformations

Predicting the results of two-step transformations (reflections, translations, rotations) on 2D shapes	
 <b>Activities</b>	
<b>Geometry: Shape, space &amp; pathways</b>	Transformations
 <b>Skill Quests</b>	
<b>Spatial reasoning: Transformation</b>	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	
 <b>Activities</b>	
<b>Geometry: Shape, space &amp; pathways</b>	What direction was that?
	Coordinate Graphs: 1st Quadrant
	Scale
	Scale Factor
 <b>Skill Quests</b>	
<b>Pathways: Grid references &amp; map scales</b>	Using simple scales on maps
	Using grid references & coordinates
<b>Pathways: Positions &amp; pathways</b>	Using cardinal compass directions

## Statistics

### Developing knowledge from data

Collecting time-series data (e.g. how the mass of a kilogram of carrots varies over 5 days)	
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Teacher directed</b>	

Calculating the mean for numerical data	
 <b>Activities</b>	
<b>Statistics &amp; probability</b>	The Mean
 <b>Skill Quests</b>	
<b>Statistics: Calculate the mean</b>	Calculating the mean

Calculating the range for numerical data	
 <b>Activities</b>	
<b>Statistics &amp; probability</b>	Data Extremes and Range
 <b>Skill Quests</b>	
<b>Statistics: Calculate the range</b>	Calculating the range

## Visualisation of data

Creating time-series graphs	
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Statistics: Time-series graphs</b>	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	
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Statistics: Data visualisations</b>	Representing/reading data in strip graphs
	Representing/reading data in bar graphs

## Interpretation of data

Identifying whether a time-series graph shows a trend	
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Teacher directed</b>	

Calculating an average and a range for continuous numerical data	
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Teacher directed</b>	

Interpreting data visualisations, including those from contemporary media	
 <b>Activities</b>	
<b>Statistics &amp; probability</b>	Reading from a Column Graph
	Histograms
	Line Graphs: Reading
	Pie Charts
 <b>Skill Quests</b>	
<b>Statistics: Interpret data in tables</b>	Interpreting data from tables
	Interpreting bivariate data & 2-way tables
<b>Statistics: Evaluate data displays</b>	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)	
 <b>Activities</b>	
<b>Statistics &amp; probability</b>	How many Combinations?
 <b>Skill Quests</b>	
<b>Sample space</b>	Identifying sample space

Calculating the probabilities of individual outcomes	
 <b>Activities</b>	
<b>Statistics &amp; probability</b>	Introductory probability
	Find the probability
 <b>Skill Quests</b>	
<b>Find probability of single event</b>	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	
 <b>Activities</b>	
<b>Teacher directed</b>	
 <b>Skill Quests</b>	
<b>Teacher directed</b>	

Answering questions about the probability of combinations of outcomes, including checking that the sum of all the probabilities is 1	
 <b>Activities</b>	
<b>Statistics &amp; probability</b>	How many Combinations?
 <b>Skill Quests</b>	
<b>Probability of combination of outcomes</b>	Probability of combination of outcomes



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