

Maths Skills Progression Overview

Through the IB PYP curriculum, Girton Glebe develops inquiring, knowledgeable and caring young people who help to create a better and more peaceful world through an education that builds intercultural understanding and respect.

Through our 6 core values, we aim to develop children at Girton Glebe who are:

Curious: inquisitive and inquiring

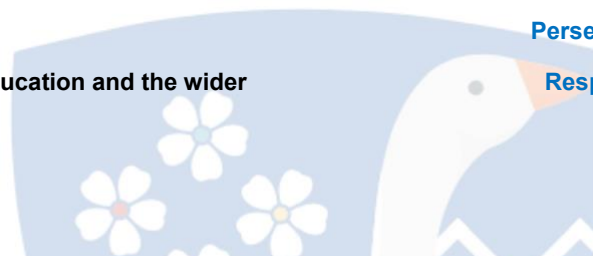
Empathetic: welcoming of others' opinions and valuing the feelings of others

Aspirational: striving to achieve

Persevering: appreciative of the learning journey

Responsible: understanding of their involvement in their education and the wider world

Respectful: inclusive, local and global citizens



EYFS		
Autumn Term	Spring Term	Summer Term
MASTERING NUMBER	MASTERING NUMBER	MASTERING NUMBER
<p>Pupils will build on previous experiences of number from their home and nursery environments, and further develop their subitising and counting skills. They will explore the composition of numbers within 5. They will begin to compare sets of objects and use the language of comparison.</p> <p>Pupils will:</p> <ul style="list-style-type: none"> • identify when a set can be subitised and when counting is needed • subitise different arrangements, both unstructured and structured, including using the Hungarian number frame • make different arrangements of numbers within 5 and talk about what they can see, to develop their conceptual subitising skills • spot smaller numbers 'hiding' inside larger numbers. • connect quantities and numbers to finger patterns and explore different ways of representing numbers on their fingers 	<p>Pupils will continue to develop their subitising and counting skills and explore the composition of numbers within and beyond 5. They will begin to identify when two sets are equal or unequal and connect two equal groups to doubles. They will begin to connect quantities to numerals.</p> <p>Pupils will:</p> <ul style="list-style-type: none"> • continue to develop their subitising skills for numbers within and beyond 5, and increasingly connect quantities to numerals • begin to identify missing parts for numbers within 5 • explore the structure of the numbers 6 and 7 as '5 and a bit' and connect this to finger patterns and the Hungarian number frame • focus on equal and unequal groups when comparing numbers • understand that two equal groups can be called a 'double' and connect this to finger patterns • sort odd and even numbers according to their 'shape' 	<p>Pupils will consolidate their counting skills, counting to larger numbers and developing a wider range of counting strategies. They will secure knowledge of number facts through varied practice</p> <p>Pupils will:</p> <ul style="list-style-type: none"> • continue to develop their counting skills, counting larger sets as well as counting actions and sounds • explore a range of representations of numbers, including the 10-frame, and see how doubles can be arranged in a 10-frame • compare quantities and numbers, including sets of objects which have different attributes • continue to develop a sense of magnitude, e.g. knowing that 8 is quite a lot more than 2, but 4 is only a little bit more than 2 • begin to generalise about 'one more than' and 'one less than' numbers within 10 • continue to identify when sets can be subitised and when counting is necessary

<ul style="list-style-type: none"> • hear and join in with the counting sequence, and connect this to the 'staircase' pattern of the counting numbers, seeing that each number is made of one more than the previous number • develop counting skills and knowledge, including: that the last number in the count tells us 'how many' (cardinality); to be accurate in counting, each thing must be counted once and once only and in any order; the need for 1:1 correspondence; understanding that anything can be counted, including actions and sounds • compare sets of objects by matching • begin to develop the language of 'whole' when talking about objects which have parts 	<ul style="list-style-type: none"> • continue to develop their understanding of the counting sequence and link cardinality and ordinality through the 'staircase' pattern • order numbers and play track games • join in with verbal counts beyond 20, hearing the repeated pattern within the counting numbers 	<ul style="list-style-type: none"> • develop conceptual subitising skills including when using a rekenrek
<p>MEASURE AND PATTERNS Compare size , Compare mass , Compare capacity Explore simple patterns ,Copy and continue simple patterns ,Create simple patterns.</p> <p>GEOMETRY: SHAPE Circles and Triangles, Identify and name circles and triangles, Compare circles and triangles, Shapes in the environment, Describe position</p> <p>Shapes with 4 Sides Identify and name shapes with 4 sides, Combine shapes with 4 sides, Shapes in the environment</p>	<p>MEASURE: MASS AND CAPACITY Compare mass, Find a balance, Explore capacity, Compare capacity</p> <p>MEASURE: LENGTH, HEIGHT AND TIME Explore length, Compare length, Explore height, Compare height, Talk about time, Order and sequence time</p> <p>GEOMETRY: 3D SHAPES Recognise and name 3-D shapes, Find 2-D shapes within 3-D shapes, Use 3-D shapes for tasks, 3-D shapes in the environment, Identify more complex patterns, Copy and continue patterns, Patterns in the environment</p>	<p>SHAPE: MANIPULATE, COMPOSE AND DECOMPOSE Select shapes for a purpose Rotate shapes, Manipulate shapes, Explain shape arrangements, Compose shapes, Decompose shapes, Copy 2-D shape pictures, Find 2-D shapes within 3-D shapes</p> <p>VISUALISE, BUILD AND MAP Identify units of repeating patterns, Create own pattern rules, Explore own pattern rules, Replicate and build scenes and constructions, Visualise from different positions, Describe positions, Give instructions to build, Explore mapping, Represent maps with models, Create own maps from familiar places, Create own maps and plans from story situations</p>

Year 1 Autumn Term					
Number: Numbers to 10	Number: Part-whole within 10	Number: Addition and Subtraction within 10	Number: Addition and Subtraction within 10	Geometry: 2D and 3D Shapes	Number: Place Value. Numbers to 20
<ul style="list-style-type: none"> • Sorting objects • Counting objects to 10 • Counting and writing numbers to 10 • Counting backwards from 10 to 0 • Counting one more • Counting one less • Comparing groups • Comparing numbers of objects • Comparing numbers • Ordering objects and numbers • First, Second, Third... • The number line 	<ul style="list-style-type: none"> • The part-whole model • Related facts – number bonds • Finding number bonds • Comparing number bonds 	<ul style="list-style-type: none"> • Finding the whole – adding together • Finding the whole – adding more • Finding a part • Finding and making number bonds • Finding addition facts • Solving word problems 	<ul style="list-style-type: none"> • Subtraction – how many are left? • Subtraction – breaking apart • Related facts – addition and subtraction • Subtraction – counting back • Subtraction – finding the difference • Solving word problems – subtraction • Comparing additions and subtractions • Solving word problems 	<ul style="list-style-type: none"> • Recognise and name 3D shapes • Sort 3D shapes • Recognise and name 2D shapes • Sort 2D shapes • Patterns with 2D and 3D shapes 	<ul style="list-style-type: none"> • Count within 20 • Writing numbers to 20 • Tens and ones within 20 • Counting one more and one less • Comparing numbers of objects within 20 • Comparing numbers within 20 • The number line to 20 • Ordering objects and numbers

Year 1 Spring Term				
Number: Addition within 20	Number: subtraction within 20	Number: numbers to 50	Measurement: length and height	Measurement: weight and volume
<ul style="list-style-type: none"> • Add by counting on • Adding ones • Finding number bonds • Add by making 10 • Solving addition word problems 	<ul style="list-style-type: none"> • Subtracting ones • Subtraction tens and ones • Subtracting crossing the 10 • Solving word problems • Addition and subtraction facts to 20 • Comparing additions and subtractions • Solving word and picture problems for addition and subtraction 	<ul style="list-style-type: none"> • Counting to 50 • Tens and ones within 50 • Representing numbers to 50 • Comparing numbers and objects • The number line to 50 • Counting in 2s • Counting in 5s • Solving addition and subtraction word problems 	<ul style="list-style-type: none"> • Comparing lengths and comparing heights • Measuring length using objects • Measuring length using a ruler • Solving word problems to do with length 	<ul style="list-style-type: none"> • Comparing weight • Heavier and lighter • Measuring weight • Compare capacity • Measure capacity • Solving word problems

<ul style="list-style-type: none"> Missing number problems 						
Year 1 Summer Term						
Number: Multiplication	Number: Division	Number: Fractions	Geometry: Position and Direction	Number: Place Value within 100	Measurement: Time	Measurement: Money
<ul style="list-style-type: none"> Count in 2s Count in 10s Count in 5s Making equal groups Adding equal groups Making simple arrays Making doubles Word problems 	<ul style="list-style-type: none"> Making equal groups Sharing equally Making equal groups Word problems 	<ul style="list-style-type: none"> Finding halves of an object, shape and quantity Finding quarters of an object, shape and quantity Recognise a half as one of two equal parts of an object, shape or quantity Recognise a quarter as one of four equal parts of an object, shape or quantity 	<ul style="list-style-type: none"> Describe turns as whole, half, quarter and three-quarter turns Describe position – left and right Describe position – forward and backwards Describe position – above and below Ordinal numbers 	<ul style="list-style-type: none"> Count, read and write numbers to 100 Count in multiples of 2s, 5s and 10s Identify and represent numbers using objects and pictorial representations Using a number line to 100 Partitioning numbers to 100 using 10s and 1s Comparing numbers to 100 using the language of: equal to, more than, less than, most, least Ordering numbers Bonds to 100 Represent and use number bonds and related subtraction facts to 20 	<ul style="list-style-type: none"> Sequencing events using before and after, first, next etc Recognising and using language relating to dates, days and months Telling time to the hour Telling time to half past Writing the time Comparing the time 	<ul style="list-style-type: none"> Recognising coins Recognising notes Counting with coins

Year 2 Autumn Term				
Number: Numbers to 100	Number: Addition and subtraction	Number: Addition and Subtraction	Measurement: Money	Number: Multiplication
<ul style="list-style-type: none"> Counting objects to 100 Representing numbers to 100 Tens and ones Representing numbers on a place value grid Comparing numbers Ordering numbers Counting in 2s,5s and 10s Counting in 3s 	<ul style="list-style-type: none"> Use addition and subtraction facts to 20 Recall related facts up to 100 Use number facts to check calculations Compare number sentences Find related facts Making numbers bonds to 100 Add and subtract 1s Add and subtract 10s Find 10 more and 10 less Add a 2-digit and 1-digit number Subtract a 1-digit number from a 2-digit number 	<ul style="list-style-type: none"> Add two 2-digit numbers, including across 10s Subtract a 2-digit number from a 2-digit number, including across 10s Missing number problems 	<ul style="list-style-type: none"> Count money – pence Count money – pounds (notes and coins) Count money – pounds and pence Choose notes and coins Make the same amount Compare amounts of money Calculate with money Make a pound Find change Two-step problems 	<ul style="list-style-type: none"> Making equal groups Multiplication as equal groups Adding as equal groups Multiplication sentences Using arrays 2,5 and 10 times tables

Year 2 Spring Term				
Number: Division	Statistics	Geometry: Shape	Number: Fractions	Measurement: Length and Height
<ul style="list-style-type: none"> Making equal groups Sharing and grouping Dividing by 2 Odd and even numbers Dividing by 5 	<ul style="list-style-type: none"> Make tally charts Tables Block diagrams Draw pictograms Interpret pictograms 	<ul style="list-style-type: none"> Recognise 2-D and 3-D shapes Count sides on 2-D shapes Count vertices on 2-D shapes 	<ul style="list-style-type: none"> Introduction to parts and whole Equal and unequal parts Recognise a half Find a half 	<ul style="list-style-type: none"> Measure in centimetres Measure in metres Compare lengths and heights Order lengths and heights

<ul style="list-style-type: none"> • Dividing by 10 • Bar model – grouping • Bar model - sharing 	<ul style="list-style-type: none"> • Draw pictograms (2, 5 and 10) • Interpret pictograms (2, 5 and 10) 	<ul style="list-style-type: none"> • Draw 2-D shapes • Lines of symmetry on shapes • Use lines of symmetry to complete shapes • Sort 2-D shapes • Count faces on 3-D shapes • Count edges on 3-D shapes • Count vertices on 3-D shapes • Sort 3-D shapes • Make patterns with 2-D and 3-D shapes 	<ul style="list-style-type: none"> • Recognise a quarter • Find a quarter • Recognise a third • Find a third • Find the whole • Unit fractions • Non-unit fractions • Recognise the equivalence of a half and two-quarters • Recognise three-quarters • Find three-quarters • Count in fractions up to a whole 	<ul style="list-style-type: none"> • Four operations with lengths and heights
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Year 2 Summer Term				
Geometry: Position and Direction	Number: Problem solving and efficient methods	Measurement: Time	Measurement: Mass, Capacity and Temperature	Investigations
<ul style="list-style-type: none"> • Language of position • Describe movement • Describe turns • Describe movement and turns • Shape patterns with turns 	<ul style="list-style-type: none"> • Using number facts • Using number facts and equivalence • Using a 100 square • Missing numbers • Mental addition and subtraction • Efficient subtraction • Solving problems addition and subtraction • Solving problems – multiplication and division 	<ul style="list-style-type: none"> • O'clock and half past • Quarter past and quarter to • Tell the time past the hour • Tell the time to the hour • Tell the time to 5 minutes • Minutes in an hour • Hours in a day 	<ul style="list-style-type: none"> • Compare mass • Measure in grams • Measure in kilograms • Four operations with mass • Compare volume and capacity • Measure in millilitres • Measure in litres • Four operations with volume and capacity • Temperature 	<ul style="list-style-type: none"> • Investigations and word problems related to everything covered in Year 2

Year 3 Autumn Term			
Number: Numbers to 1,000	Number: Addition and subtraction	Number: Addition and Subtraction	Number: Multiplication and Division
<ul style="list-style-type: none"> • Represent numbers to 100 • Partition numbers to 100 • Number line to 100 • Hundreds • Represent numbers to 1,000 • Partition numbers to 1,000 • Flexible partitioning of numbers to 1,000 • Hundreds, tens and ones • Find 1, 10 or 100 more or less • Number line to 1,000 • Estimate on a number line to 1,000 • Compare numbers to 1,000 • Order numbers to 1,000 • Count in 50s 	<ul style="list-style-type: none"> • Apply number bonds within 10 • Add and subtract 1s • Add and subtract 10s • Add and subtract 100s • Spot the pattern • Add 1s across a 10 • Add 10s across a 100 • Subtract 1s across a 10 • Subtract 10s across a 100 • Make connections • Add two numbers (no exchange) 	<ul style="list-style-type: none"> • Subtract two numbers (no exchange) • Add two numbers (across a 10) • Add two numbers (across a 100) • Subtract two numbers (across a 10) • Subtract two numbers (across a 100) • Add 2-digit and 3-digit numbers • Subtract a 2-digit number from a 3-digit number • Complements to 100 • Estimate answers • Inverse operations • Make decisions 	<ul style="list-style-type: none"> • Multiplication – equal groups • Use arrays • Multiples of 2 • Multiples of 5 and 10 • Sharing and grouping • Multiply by 3 • Divide by 3 • The 3 times-table • Multiply by 4 • Divide by 4 • The 4 times-table • Multiply by 8 • Divide by 8 • The 8 times-table • The 2, 4 and 8 times-tables

Year 3 Spring Term				
Number: multiplication and division	Measurement: Money	Statistics	Measurement: length and perimeter	Number: Fractions
<ul style="list-style-type: none"> • Multiples of 10 • Related calculations • Reasoning about multiplication • Multiply a 2-digit number by a 1-digit number – no exchange • Multiply a 2-digit number by a 1-digit number – with exchange 	<ul style="list-style-type: none"> • Pounds and pence • Convert pounds and pence • Add money • Subtract money • Find change 	<ul style="list-style-type: none"> • Interpret pictograms • Draw pictograms • Interpret bar charts • Draw bar charts • Collect and represent data • Two-way tables 	<ul style="list-style-type: none"> • Measure in metres and centimetres • Measure in millimetres • Measure in centimetres and millimetres • Metres, centimetres and millimetres • Equivalent lengths (metres and centimetres) 	<ul style="list-style-type: none"> • Understand the denominators of unit fractions • Compare and order unit fractions • Understand the numerators of non-unit fractions • Understand the whole

<ul style="list-style-type: none"> • Link multiplication and division • Divide a 2-digit number by a 1-digit number – no exchange • Divide a 2-digit number by a 1-digit number – flexible partitioning • Divide a 2-digit number by a 1-digit number – with remainders • Scaling • How many ways? 			<ul style="list-style-type: none"> • Equivalent lengths (centimetres and millimetres) • Compare lengths • Add lengths • Subtract lengths • What is perimeter? • Measure perimeter • Calculate perimeter 	<ul style="list-style-type: none"> • Compare and order non-unit fractions • Fractions and scales • Fractions on a number line • Count in fractions on a number line • Equivalent fractions on a number line • Equivalent fractions as bar models
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Year 3 Summer Term

Number: Fractions	Measurement: Time	Geometry: Properties of Shape	Measurement: mass and capacity
<ul style="list-style-type: none"> • Add fractions • Subtract fractions • Partition the whole • Unit fractions of a set of objects • Non-unit fractions of a set of objects • Reasoning with fractions of an amount 	<ul style="list-style-type: none"> • Roman numerals to 12 • Tell the time to 5 minutes • Tell the time to the minute • Read time on a digital clock • Use am and pm • Years, months and days • Days and hours • Hours and minutes – use start and end times • Hours and minutes - use durations • Minutes and seconds • Units of time • Solve problems with time 	<ul style="list-style-type: none"> • Turns and angles • Right angles • Compare angles • Measure and draw accurately • Horizontal and vertical • Parallel and perpendicular • Recognise and describe 2-D shapes • Draw polygons • Recognise and describe 3-D shapes • Make 3-D shapes 	<ul style="list-style-type: none"> • Use scales • Measure mass in grams • Measure mass in kilograms and grams • Equivalent masses (kilograms and grams) • Compare mass • Add and subtract mass • Measure capacity and volume in millilitres • Measure capacity and volume in litres and millilitres • Equivalent capacities and volumes (litres and millilitres) • Compare capacity and volume • Add and subtract capacity and volume

Year 4 Autumn Term			
Number: Numbers to 10,000	Number: Addition and subtraction	Measure: Length and Perimeter	Number: Multiplication and Division
<ul style="list-style-type: none"> • Represent numbers to 1,000 • Partition numbers to 1,000 • Number line to 1,000 • Thousands • Represent numbers to 10,000 • Partition numbers to 10,000 • Flexible partitioning of numbers to 10,000 • Find 1, 10, 100, 1,000 more or less • Number line to 10,000 • Estimate on a number line to 10,000 • Compare numbers to 10,000 • Order numbers to 10,000 • Roman numerals • Round to the nearest 10 • Round to the nearest 100 • Round to the nearest 1,000 • Round to the nearest 10, 100 or 1,000 	<ul style="list-style-type: none"> • Add and subtract 1s, 10s, 100s and 1,000s • Add up to two 4-digit numbers – no exchange • Add two 4-digit numbers – one exchange • Add two 4-digit numbers – more than one exchange • Subtract two 4-digit numbers – no exchange • Subtract two 4-digit numbers – one exchange • Subtract two 4-digit numbers – more than one exchange • Efficient subtraction • Estimate answers • Checking strategies 	<ul style="list-style-type: none"> • Measure in kilometres and metres • Equivalent lengths (kilometres and metres) • Perimeter on a grid • Perimeter of a rectangle • Perimeter of rectilinear shapes • Find missing lengths in rectilinear shapes • Calculate perimeter of rectilinear shapes • Perimeter of regular polygons • Perimeter of polygon 	<ul style="list-style-type: none"> • Multiples of 3 • Multiply and divide by 6 • 6 times-table and division facts • Multiply and divide by 9 • 9 times-table and division facts • The 3, 6 and 9 times-tables • Multiply and divide by 7 • 7 times-table and division facts • 11 times-table and division facts • 12 times-table and division facts • Multiply by 1 and 0 • Divide a number by 1 and itself • Multiply three numbers

Year 4 Spring Term			
Number: Multiplication and Division	Measurement: Area	Number: Fractions	Number: Decimals
<ul style="list-style-type: none"> • Factor pairs • Use factor pairs • Multiply by 10 • Multiply by 100 • Divide by 10 • Divide by 100 • Related facts – multiplication and division 	<ul style="list-style-type: none"> • What is area? • Count squares • Make shapes • Compare areas 	<ul style="list-style-type: none"> • Understand the whole • Count beyond 1 • Partition a mixed number • Number lines with mixed numbers • Compare and order mixed numbers • Understand improper fractions • Convert mixed numbers to improper fractions 	<ul style="list-style-type: none"> • Tenths as fractions • Tenths as decimals • Tenths on a place value chart • Tenths on a number line • Divide a 1-digit number by 10 • Divide a 2-digit number by 10 • Hundredths as fractions • Hundredths as decimals • Hundredths on a place value chart

<ul style="list-style-type: none"> • Informal written methods for multiplication • Multiply a 2-digit number by a 1-digit number • Multiply a 3-digit number by a 1-digit number • Divide a 2-digit number by a 1-digit number • Divide a 3-digit number by a 1-digit number • Correspondence problems • Efficient multiplication 		<ul style="list-style-type: none"> • Convert improper fractions to mixed numbers • Equivalent fractions on a number line • Equivalent fraction families • Add two or more fractions • Add fractions and mixed numbers • Subtract two fractions • Subtract from whole amounts • Subtract from mixed numbers 	<ul style="list-style-type: none"> • Divide a 1- or 2-digit number by 100
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Year 4 Summer Term

Number: Decimals	Measurement: Money	Measurement: Time	Statistics	Geometry: Properties of shape	Geometry: position and direction
<ul style="list-style-type: none"> • Make a whole with tenths • Make a whole with hundredths • Partition decimals • Flexibly partition decimals • Compare decimals • Order decimals • Round to the nearest whole number • Halves and quarters as decimals 	<ul style="list-style-type: none"> • Write money using decimals • Convert between pounds and pence • Compare amounts of money • Estimate with money • Calculate with money • Solve problems with money 	<ul style="list-style-type: none"> • Years, months, weeks and days • Hours, minutes and seconds • Convert between analogue and digital times • Convert to the 24-hour clock • Convert from the 24-hour clock 	<ul style="list-style-type: none"> • Interpret charts • Comparison, sum and difference • Interpret line graphs • Draw line graphs 	<ul style="list-style-type: none"> • Understand angles as turns • Identify angles • Compare and order angles • Triangles • Quadrilaterals • Polygons • Lines of symmetry • Complete a symmetric figure 	<ul style="list-style-type: none"> • Describe position using coordinates • Plot coordinates • Draw 2-D shapes on a grid • Translate on a grid • Describe translation on a grid

Year 5 Autumn Term				
Number: Numbers to 100,000	Number: Addition and subtraction	Statistics	Number: Multiplication and Division	Geometry: Perimeter and Area
<ul style="list-style-type: none"> • Roman numerals to 1,000 • Numbers to 10,000 • Numbers to 100,000 • Numbers to 1,000,000 • Read and write numbers to 1,000,000 • Powers of 10 Step 7 10/100/1,000/10,000/100,000 more or less • Partition numbers to 1,000,000 • Number line to 1,000,000 • Compare and order numbers to 100,000 • Compare and order numbers to 1,000,000 • Round to the nearest 10, 100 or 1,000 • Round within 100,000 • Round within 1,000,000 • Understand negative numbers • Count through zero in 1s • Count through zero in multiples • Compare and order negative numbers • Find the difference 	<ul style="list-style-type: none"> • Mental strategies • Add whole numbers with more than four digits • Subtract whole numbers with more than four digits • Round to check answers • Inverse operations (addition and subtraction) • Multi-step addition and subtraction problems • Compare calculations • Find missing numbers 	<ul style="list-style-type: none"> • Draw line graphs • Read and interpret line graphs • Read and interpret tables • Two-way tables • Read and interpret timetables 	<ul style="list-style-type: none"> • Multiples • Common multiples • Factors • Common factors • Prime numbers • Square numbers • Cube numbers • Multiply by 10, 100 and 1,000 • Divide by 10, 100 and 1,000 • Multiples of 10, 100 and 1,000 	<ul style="list-style-type: none"> • Perimeter of rectangles • Perimeter of rectilinear shapes • Perimeter of polygons • Area of rectangles • Area of compound shapes • Estimate area

Number: Multiplication and Division	Number: Fractions	Number: Decimals and Percentages
<ul style="list-style-type: none"> • Multiply up to a 4-digit number by a 1-digit number • Multiply a 2-digit number by a 2-digit number (area model) • Multiply a 2-digit number by a 2-digit number • Multiply a 3-digit number by a 2-digit number • Multiply a 4-digit number by a 2-digit number • Solve problems with multiplication • Short division • Divide a 4-digit number by a 1-digit number • Divide with remainders • Efficient division • Solve problems with multiplication and division 	<ul style="list-style-type: none"> • Find fractions equivalent to a unit fraction • Find fractions equivalent to a non-unit fraction • Recognise equivalent fractions • Convert improper fractions to mixed numbers • Convert mixed numbers to improper fractions • Compare fractions less than 1 • Order fractions less than 1 • Compare and order fractions greater than 1 • Add and subtract fractions with the same denominator • Add fractions within 1 • Add fractions with total greater than 1 • Add to a mixed number • Add two mixed numbers • Subtract fractions • Subtract from a mixed number • Subtract from a mixed number – breaking the whole • Subtract two mixed numbers • Multiply a unit fraction by an integer • Multiply a non-unit fraction by an integer • Multiply a mixed number by an integer • Calculate a fraction of a quantity • Fraction of an amount • Find the whole • Use fractions as operators 	<ul style="list-style-type: none"> • Decimals up to 2 decimal places • Equivalent fractions and decimals (tenths) • Equivalent fractions and decimals (hundredths) • Equivalent fractions and decimals • Thousandths as fractions • Thousandths as decimals • Thousandths on a place value chart • Order and compare decimals (same number of decimal places) • Order and compare any decimals with up to 3 decimal places • Round to the nearest whole number • Round to 1 decimal place • Understand percentages • Percentages as fractions • Percentages as decimals • Equivalent fractions, decimals and percentages

Number: Decimals	Geometry: Property of shape	Geometry: Position and Direction	Measurement: Converting Units	Measurement: Volume
<ul style="list-style-type: none"> • Use known facts to add and subtract decimals within 1 • Complements to 1 • Add and subtract decimals across 1 • Add decimals with the same number of decimal places • Subtract decimals with the same number of decimal places • Add decimals with different numbers of decimal places • Subtract decimals with different numbers of decimal places • Efficient strategies for adding and subtracting decimals • Decimal sequences • Multiply by 10, 100 and 1,000 • Divide by 10, 100 and 1,000 • Multiply and divide decimals – missing values 	<ul style="list-style-type: none"> • Understand and use degrees • Classify angles • Estimate angles • Measure angles up to 180° • Draw lines and angles accurately • Calculate angles around a point • Calculate angles on a straight line • Lengths and angles in shapes • Regular and irregular polygons • 3-D shapes 	<ul style="list-style-type: none"> • Read and plot coordinates • Problem solving with coordinates • Translation • Translation with coordinates • Lines of symmetry • Reflection in horizontal and vertical lines 	<ul style="list-style-type: none"> • Kilograms and kilometres • Millimetres and millilitres • Convert units of length • Convert between metric and imperial units • Convert units of time • Calculate with timetables 	<ul style="list-style-type: none"> • Cubic centimetres • Compare volume • Estimate volume • Estimate capacity

Year 6 Autumn Term			
Number: Place Value to 1,000,000	Number: Addition, Subtraction, Multiplication and Division	Number: Fractions	Geometry: Position and Direction
<ul style="list-style-type: none"> Numbers to 1,000,000 Numbers to 10,000,000 Read and write numbers to 10,000,000 Powers of 10 Number line to 10,000,000 Compare and order any integers Round any integer Negative numbers 	<ul style="list-style-type: none"> Add and subtract integers Common factors Common multiples Rules of divisibility Primes to 100 Square and cube numbers Multiply up to a 4-digit number by a 2-digit number Solve problems with multiplication Short division Division using factors Introduction to long division Long division with remainders Solve problems with division Solve multi-step problems Order of operations Mental calculations and estimation Reason from known facts 	<ul style="list-style-type: none"> Equivalent fractions and simplifying Equivalent fractions on a number line Compare and order (denominator) Compare and order (numerator) Add and subtract simple fractions Add and subtract any two fractions Add mixed numbers Subtract mixed numbers Multi-step problems Multiply fractions by integers Multiply fractions by fractions Divide a fraction by an integer Divide any fraction by an integer Mixed questions with fractions Fraction of an amount Fraction of an amount – find the whole 	<ul style="list-style-type: none"> The first quadrant Read and plot points in four quadrants Solve problems with coordinates Translations Reflections

Year 6 Spring Term					
Number: Decimals	Number: Percentages	Number: Algebra	Measurement: Converting Units	Measurement: Perimeter, Area and Volume	Number: Ratio and Proportion
<ul style="list-style-type: none"> Place value within 1 Place value – integers and decimals Round decimals Add and subtract decimals 	<ul style="list-style-type: none"> Decimal and fraction equivalents Fractions as division Understand percentages Fractions to percentages 	<ul style="list-style-type: none"> 1-step function machines 2-step function machines Form expressions Substitution Formulae 	<ul style="list-style-type: none"> Metric measures Convert metric measures Calculate with metric measures Miles and kilometres Imperial measures 	<ul style="list-style-type: none"> Shapes – same area Area and perimeter Area of a triangle – counting squares Area of a right-angled triangle Area of any triangle 	<ul style="list-style-type: none"> Add or multiply? Use ratio language Introduction to the ratio symbol Ratio and fractions Scale drawing Use scale factors

<ul style="list-style-type: none"> • Multiply by 10, 100 and 1,000 • Divide by 10, 100 and 1,000 • Multiply decimals by integers • Divide decimals by integers • Multiply and divide decimals in context 	<ul style="list-style-type: none"> • Equivalent fractions, decimals and percentages • Order fractions, decimals and percentages • Percentage of an amount – one step • Percentage of an amount – multi-step • Percentages – missing values 	<ul style="list-style-type: none"> • Form equations • Solve 1-step equations • Solve 2-step equations • Find pairs of values • Solve problems with two unknowns 		<ul style="list-style-type: none"> • Area of a parallelogram • Volume – counting cubes • Volume of a cuboid 	<ul style="list-style-type: none"> • Similar shapes • Ratio problems • Proportion problems • Recipes
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Year 6 Summer Term			
Geometry: Property of Shape	Number: Problem Solving	Statistics	Investigations
<ul style="list-style-type: none"> • Measure and classify • Calculate angles • Vertically opposite angles • Angles in a triangle • Angles in a triangle – special cases • Angles in a triangle – missing angles • Angles in a quadrilateral • Angles in polygons • Circles • Draw shapes accurately • Nets of 3-D shapes 	<ul style="list-style-type: none"> • Solving number and practical problems to do with place value and negative numbers • Using estimation to check answers and determine an appropriate degree of accuracy • Solve problems involving the four operations • Recall and use equivalence between fractions, decimals and percentages • Solve problems with unequal sharing and grouping • Converting between units of measure, using decimal notation up to three decimal places 	<ul style="list-style-type: none"> • Line graphs • Dual bar charts • Read and interpret pie charts • Pie charts with percentages • Draw pie charts • The mean 	<ul style="list-style-type: none"> • Themed projects • Consolidation • Problem Solving