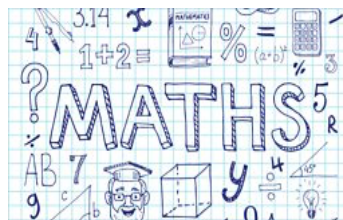


KNOWLEDGE



To know the place value of numbers to 10 millions and decimals to thousandths
To know number facts including times tables up to 12×12
To know a range of methods to use to calculate accurately
To know the relationship between fractions, decimals and percentages
To know the units used to measure lengths, mass and capacity
To know the names of shapes and their properties
To know mathematical vocabulary related to all areas of the curriculum

MATHS CURRICULUM INTENT



SKILLS



Develop fluency in working with number , including fractions and decimals
Reason by thinking through problems logically
Solve a range of problems by applying mathematical skills
Calculate efficiently using the four operations
Measure lengths, mass and capacity accurately
Tell the time
Read and interpret data represent in a range of ways

CULTURAL CAPITAL



A secure understanding of maths and number are vital in the wider world. A knowledge of money and decimals ensures that children are able to negotiate the environment of financial literacy.

In many areas of employment, data handling - such as interpreting graphs and tables– is required. The use of ICT in doing so develops children’s computer skills, which are also necessary in many workplaces.

Careers in science, technology and engineering are also rooted in a secure understanding of maths.

Maths also allows us to communicate more effectively, as we learn to communicate through symbols and diagrams.

EXPERIENCES



Global & National Events:

Maths week England

50 Things to do:

Ching Ching, Sweet Charity

Trips:

Science Oxford, Village Shop

CHARACTER



Roots that Strengthen: The children’s fluency and understanding of number, place value and basic use of the four operations.

Branches that Reach: Children being able to apply their understanding of number and reason with it, whilst also developing other areas of maths such as statistics, geometry and fractions.

Fruit that Flourishes: Children’s confidence in using and manipulating number, choosing from a range of methods to calculate efficiently and solve a range of word problems.

IMPACT



We monitor & support the teaching through:

Developmental Drop Ins
Book Look Feedback

We measure the impact on learning by:

Summative Assessment
End of Block assessments

We record the impact through:

Target tracker

Year 1/2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value Y1 – Numbers to 20 Y2 – Numbers to 100				Number: Addition and Subtraction Y1 – Numbers within 20 Y2 – Numbers within 100		Geometry Y1: Shape Y2: Properties of shape	Number: Place Value Y1 – Numbers to 50 Y2 – Numbers to 100	Number: Multiplication		Geometry: Position and Direction	Measurement: Time
Spring	Number: Place value Y1 – Numbers to 100 Y2 - ???		Statistics	Number: Fractions	Geometry Y1: Shape Y2: Properties of shape	Number: Addition and Subtraction Y1 – Numbers within 20 Y2 – Numbers within 100		Measurement: Length and Height	Number: Multiplication and Division		Measurement Y1 – Weight and Volume Y2 – Mass, Capacity and Temperature	
Summer	Number: Addition and Subtraction Y1 – Numbers within 20 Y2 – Numbers within 100	Number: Fractions	Measurement: Time	Geometry Y1: Shape Y2: Properties of shape	Measurement Y1 – Weight and Volume Y2 – Mass, Capacity and Temperature		Statistics	Recap, consolidation and investigation				

Year 1/2 small steps

Autumn Term	Spring Term	Summer Term
Number: Place Value (4 weeks)	Number: Place Value, including money (2 weeks)	Number: Addition and Subtraction (1 week)
<p>Year 1 Sort objects Count objects Represent objects Count, read and write forwards from any number 0 to 10 Count, read and write backwards from any number 0 to 10 Count one more Count one less One-to-one correspondence to start to compare groups Compare groups using language such as equal, more/greater, less/fewer Introduce <, > and = symbols Compare numbers Order groups of objects Order numbers Ordinal numbers (1st, 2nd, 3rd ...) The number line Count forwards and backwards and write number to 20 in numerals and words Number 11-20 Tens and ones Count one more and one less Compare groups of objects Compare numbers Order groups of objects Order numbers</p> <p>Year 2 Count objects to 10 and read and write numbers in numerals and words Represent numbers to 100 Tens and ones with a part-whole model Tens and ones using addition Use a place value chart Compare objects Compare numbers Order objects and numbers Count in 2s, 5s and 10s Count in 3s</p>	<p>Year 1 Counting to 100 Partitioning numbers Comparing numbers (1) Comparing numbers (2) Ordering numbers One more, one less Recognising coins Recognising notes Counting in coins</p> <p>Year 2 Count money – pence Count money – pounds (notes and coins) Count money – notes and coins Select money Make the same amount Compare money Find the total Find the difference Find change Two-step problems</p>	<p>Year 1 Add by counting on Find and make number bonds Add by making 10 Subtraction – Not crossing 10 Subtraction – Crossing 10 (1) Subtraction – Crossing 10 (2) Related facts Compare number sentences</p> <p>Year 2 Subtract a 2-digit number from a 2-digit number – crossing ten – subtract ones and tens Bonds to 100 (tens and ones) Add three 1-digit numbers</p>

Autumn Term	Spring Term	Summer Term
Number: Addition and Subtraction (2 weeks)	Statistics (1 week)	Number: Fractions (1 week)
<p>Year 1 <i>Part-whole model</i> <i>Addition symbol</i> <i>Fact families – addition facts</i> <i>Find number bonds for numbers within 10</i> <i>Systematic methods for number bonds within 10</i> <i>Number bonds to 1-</i> <i>Compare number bonds</i> <i>Addition – adding together</i> <i>Addition – adding more</i> <i>Finding a part</i></p> <p>Year 2 Fact families – addition and subtraction bonds to 20 Check calculations Compare number sentences Related facts Bond to 100 (tens) Add and subtract 1s</p>	<p>Year 1</p> <p>Year 2 Make tally charts Draw pictograms (1-1) Interpret pictograms (1-1)</p>	<p>Year 1 <i>Find a quarter (1)</i> <i>Find a quarter (2)</i></p> <p>Year 2 Recognise a third Find a third Unit fractions Non-unit fractions Equivalence of $\frac{1}{2}$ and $\frac{2}{4}$ Find three quarters Count in fractions</p>
Geometry: Shape (1 week)	Number: Fractions (1 week)	Measurement: Time (1 week)
<p>Year 1 <i>Recognise and name 3-D shapes</i> <i>Sort 3-D shapes</i></p> <p>Year 2 Recognise 2-D and 3-D shapes Count sides of 2-D shapes Count vertices on 2-D shapes Draw 2-D shapes</p>	<p>Year 1 <i>Find a half (1)</i> <i>Find a half (2)</i></p> <p>Year 2 Make equal parts Recognise a half Find a half Recognise a quarter Find a quarter</p>	<p>Year 1 <i>Time to the half hour</i> <i>Writing time</i> <i>Comparing time</i></p> <p>Year 2 Hours and days Find durations of time Compare durations of time</p>

Autumn Term	Spring Term	Summer Term
Number: Place Value (1 week)	Geometry: Shape (1 week)	Geometry: Shape (1 week)
<p>Year 1 <i>Numbers to 50</i> <i>Tens and ones</i> <i>Represent numbers to 50</i> <i>One more one less</i> <i>Compare objects within 50</i> <i>Compare numbers within 50</i> <i>Order numbers within 50</i> <i>Count in 2s</i> <i>Count in 5s</i></p> <p>Year 2</p>	<p>Year 1 <i>Recognise and name 2-D shapes</i> <i>Sort 2-D shapes</i></p> <p>Year 2 <i>Lines of symmetry</i> <i>Sort 2-D shapes</i> <i>Make patterns with 2-D shapes</i></p>	<p>Year 1 <i>Patterns with 3-D and 2-D shapes</i></p> <p>Year 2 <i>Count faces on 3-D shapes</i> <i>Count edges on 3-D shapes</i> <i>Count vertices on 3-D shapes</i> <i>Sort 3-D shapes</i> <i>Make patterns with 3-D shapes</i></p>
Number: Multiplication (2 weeks)	Number: Addition and Subtraction (2 weeks)	Measurement: Weight, Volume, Mass, Capacity and Temperature (1 week)
<p>Year 1 <i>Count in 10s</i> <i>Make equal groups</i> <i>Add equal groups</i> <i>Make arrays</i> <i>Make doubles</i></p> <p>Year 2 <i>Recognise equal groups</i> <i>Make equal groups</i> <i>Add equal groups</i> <i>Multiplication sentences using the x symbol</i> <i>Multiplication sentences from pictures</i> <i>Use arrays</i></p>	<p>Year 1 <i>Subtraction – taking away, how many left? Crossing out</i> <i>Subtraction – taking away, how many left? Introducing the subtraction symbol</i> <i>Subtraction – finding a part, breaking apart</i> <i>Fact families – the 8 facts</i> <i>Subtraction – counting back</i> <i>Subtraction – finding the difference</i> <i>Comparing addition and subtraction statements $a + b > c$</i> <i>Comparing addition and subtraction statements $a + b > c + d$</i></p> <p>Year 2 <i>Add a 2-digit and 1-digit number – crossing ten</i> <i>Subtract a 1-digit number from a 2-digit number – crossing 10</i> <i>Add two 2-digit numbers – not crossing ten – add ones and add tens</i> <i>Add two 2-digit numbers – crossing ten – add ones and add tens</i> <i>Subtract a 2-digit number from a 2-digit number – not crossing ten</i></p>	<p>Year 1 <i>Introduce capacity and volume</i> <i>Measure capacity</i> <i>Compare capacity</i></p> <p>Year 2 <i>Millilitres</i> <i>Litres</i> <i>Temperature</i></p>

Autumn Term	Spring Term	Summer Term
Geometry: Position and Direction (1 week)	Measurement: Length and Height (1 week)	Statistics (1 week)
<p>Year 1 Describe turns Describe position (1) Describe position (2)</p> <p>Year 2 Describing movement Describing turns Describing movement and turns Making patterns with shapes</p>	<p>Year 1 Measure length (1) Measure length (2) Compare lengths and heights Measure length (1) Measure length (2)</p> <p>Year 2 Measure length (cm) Measure length (m) Compare lengths Order lengths Four operations with lengths</p>	<p>Year 1</p> <p>Year 2 Draw pictograms (2, 5 and 10) Interpret pictograms (2, 5 and 10) Block diagrams</p>
Measurement: Time (1 week)	Number: Multiplication and Division (3 weeks)	
<p>Year 1 Before and after Dates Time to the hour</p> <p>Year 2 O'clock and half past Quarter past and quarter to Telling time to 5 minutes</p>	<p>Year 1 Make equal groups – grouping Make equal groups - sharing</p> <p>Year 2 2 times-table 5 times-table 10 times-table Make equal groups – sharing Make equal groups – grouping Divide by 2 Odd and even numbers Divide by 5 Divide by 10</p>	
	Measurement: Weight, Volume, Mass, Capacity and Temperature (1 week)	
	<p>Year 1 Introduce weight and mass Measure mass Compare mass</p> <p>Year 2 Compare mass Measure mass in grams Measure mass in kilograms Compare volume</p>	

Year 3

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value			Number: Addition and Subtraction		Number: Multiplication and Division		Measurement: Money	Number: Fractions		Measurement: Length and Perimeter	
Spring	Number: Addition and Subtraction		Number: Multiplication and Division		Measurement: Time		Number: Fractions		Geometry: Properties of Shape	Measurement: Mass and Capacity		Statistics
Summer	Number: Addition and Subtraction	Number: Multiplication and Division		Measurement: Length and Perimeter	Number: Fractions	Measurement: Time	Measurement: Mass and Capacity	Geometry: Properties of Shape	Statistics	Consolidation		

Year 3 Small Steps

Autumn Term	Spring Term	Summer Term
Number: Place Value (3 weeks)	Number: Addition and Subtraction (2 weeks)	Number: Addition and Subtraction (1 week)
Hundreds Representation to 1,000 100s, 10s and 1s (1) 100s, 10s and 1s (2) Number line to 1,000 Find 1, 10, 100 more or less than a given number Compare objects to 1,000 Compare numbers to 1,000 Order numbers Count in 50s	Add and subtract 100s Spot the pattern – making it explicit Add and subtract 2-digit and 3-digit numbers – not crossing 10 or 100 Add a 2-digit and 3-digit numbers – crossing 10 or 100 Subtract a 2-digit number from a 3-digit number – crossing 10 or 100 Add two 3-digit numbers - not crossing 10 or 100 Add two 3-digit numbers – crossing 10 or 100	Subtract a 3-digit number from a 3-digit number – no exchange Subtract a 3-digit number from a 3-digit number – exchange Estimate answers to calculations Check answers
Number: Addition and Subtraction (2 weeks)	Number: Multiplication and Division (2 weeks)	Number: Multiplication and Division (2 weeks)
Add and subtract multiples of 100 Add and subtract 3-digit and 10digit numbers – not crossing 10 Add 3-digit and 1-digit numbers – crossing 10 Subtract a 1-digit number from a 3-digit number – crossing 10 Add and subtract 3-digit and 2-digit numbers – not crossing 100 Add 3-digit and 2-digit numbers – crossing 100 Subtract a 2-digit number from a 3-digit number – crossing 100	Multiply by 8 Divide by 8 The 8 times table Comparing statements Related calculations Multiply 2-digits by 1-digit (1) Multiply 2-digits by 1-digit (2)	Divide 2-digits by 1-digit (1) Divide 2-digits by 1-digit (2) Divide 2-digits by 1-digit (3) Scaling How many ways?
Number: Multiplication and Division (2 weeks)	Measurement: Time (2 weeks)	Measurement: Length and Perimeter (1 week)
Multiplication – equal groups Multiply by 3 Divide by 3 The 3 times table Multiply by 4 Divide by 4 The 4 times table	Months and years Hours in day Telling the time to 5 minutes Telling the time to the minute Using a.m. and p.m. 24-hour clock	Measure perimeter Calculate perimeter

Autumn Term	Spring Term	Summer Term
Measurement: Money (1 week)	Number: Fractions (2 weeks)	Number: Fractions (1 week)
Pounds and pence Convert pounds and pence Add money Subtract money Give change	Fractions of a set of objects (1) Fractions of a set of objects (2) Fractions of a set of objects (3) Equivalent fractions (1) Equivalent fractions (2) Equivalent fractions (3)	Compare fractions Order fractions Add fractions Subtract fractions
Number: Fractions (2 weeks)	Geometry: Properties of Shape (1 week)	Measurement: Time (1 week)
Unit and non-unit fractions Making the whole Tenths Count in tenths Tenths as decimals Fractions on a number line	Turns and angles Right angles in shapes Compare angles Draw accurately Horizontal and vertical	Finding the duration Comparing durations Start and end times Measuring time in seconds
Measurement: Length and Perimeter (2 weeks)	Measurement: Mass and Capacity (2 weeks)	Measurement: Mass and Capacity (1 week)
Measure length Equivalent lengths – m & cm Equivalent lengths – mm & cm Compare lengths Add lengths Subtract lengths	Measure mass (1) Measure mass (2) Compare mass Add and subtract mass Measure capacity (1) Measure capacity (2)	Compare capacity Add and subtract capacity
	Statistics (1 week)	Geometry: Properties of Shape (1 week)
	Pictograms Bar charts	Parallel and perpendicular Recognise and describe 2-D shapes Recognise and describe 3-D shapes Make 3-D shapes
		Statistics (1 week)
		Tables

Year 4

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value				Number: Addition and Subtraction	Number: Multiplication and Division		Measurement: Length and Perimeter	Number: Fractions	Number: Decimals		Geometry: Properties of Shape
Spring	Number: Addition and Subtraction	Number: Multiplication and Division		Measurement: Area	Number: Decimals		Geometry: Properties of Shape		Number: Fractions		Measurement: Money	Statistics
Summer	Number: Addition and Subtraction	Number: Multiplication and Division		Number: Decimals	Statistics	Measurement: Money	Number: Fractions	Geometry: Position and Direction	Measurement: Time	Consolidation		

Year 4 Small Steps

Autumn Term	Spring Term	Summer Term
Number: Place Value (4 weeks)	Number: Addition and Subtraction (1 week)	Number: Addition and Subtraction (1 week)
Roman Numerals to 100 Round to the nearest 10 Round to the nearest 100 Count in 1,000s 1,000s, 100s, 10s and 1s Partitioning Number line to 10,000 1,000 more or less Compare numbers Order numbers Round to the nearest 1,000 Count in 25s Negative numbers	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
Number: Addition and Subtraction (1 week)	Number: Multiplication and Division (2 weeks)	Number: Multiplication and Division (2 weeks)
Add and subtract 1s, 10s, 100s and 1,000s Add two 4-digit numbers – no exchange Add two 4-digit numbers – one exchange Add two 4-digit numbers – more than one exchange	11 and 12 times-table Multiply 3 numbers Factor pairs Efficient multiplication Written methods Multiply 2-digits by 1-digit Multiply 3-digits by 1-digit	Divide 2-digits by 1-digit (1) Divide 2-digits by 1-digit (2) Divide 3-digits by 1-digit Correspondence problems
Number: Multiplication and Division (2 weeks)	Measurement: Area (1 week)	Number: Decimals (1 week)
Multiply by 10 Multiply by 100 Divide by 10 Divide by 100 Multiply by 1 and 0 Divide by 1 and itself Multiply and divide by 6 6 times table and division facts Multiply and divide by 9 9 times table and division facts Multiply and divide by 7 7 times table and division facts	What is area? Counting squares Making shapes Comparing area	Compare decimals Order decimals Round decimals Halves and quarters

Autumn Term	Spring Term	Summer Term
Measurement: Length and Perimeter (1 week)	Number: Decimals (2 weeks)	Statistics (1 week)
Kilometres Perimeter on a grid Perimeter of a rectangle Perimeter of rectilinear shapes	Hundredths Hundredths as decimals Hundredths on a place value grid Divide 1 or 2-digits by 100 Make a whole Write decimals	Introducing line graphs Line graphs
Number: Fractions (1 week)	Geometry: Properties of Shape (2 weeks)	Measurement: Money (1 week)
What is a fraction Equivalent fractions (1) Equivalent fractions (2)	Quadrilaterals Lines of symmetry Complete a symmetric figure	Four operations
Number: Decimals (2 weeks)	Number: Fractions (2 weeks)	Number: Fractions (1 week)
Recognise tenths and hundredths Tenths as decimals Tenths on a place value grid Tenths on a number line Divide 1-digit by 10 Divide 2-digits by 10	Fractions greater than 1 Count in fractions Add 2 or more fractions Subtract 2 fractions Subtract from whole amounts	Calculate fractions of a quantity Problem solving – calculate quantities
Geometry: Properties of Shape (1 week)	Measurement: Money (1 week)	Geometry: Position and Direction (1 week)
Identify angles Compare and order angles Triangles	Pounds and pence Ordering money Estimating money	Describe a position Draw on a grid Move on a grid Describe movement on a grid
	Statistics (1 week)	Measurement: Time (1 week)
	Interpret charts Comparison, sum and difference	Hours, minutes and seconds Years, months, weeks and days Analogue to digital – 12 hour Analogue to digital – 24 hour

Year 5

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value			Number: Addition and Subtraction	Number: Multiplication and division		Fractions		Decimals and percentages		Measurement: Perimeter and Area	Geometry: Properties of Shape
Spring	Number: Addition and Subtraction	Number: Multiplication and division		Fractions		Decimals and percentages		Geometry: Properties of Shape	Measurement: Converting Units		Statistics	
Summer	Number: Addition and Subtraction	Number: Multiplication and division		Fractions		Measurement: Perimeter and area	Decimals and percentages		Geometry: Position and Direction	Measurement: Volume	Statistics	
	Consolidation											

Year 5 Small Steps

Autumn Term	Spring Term	Summer Term
Number: Place Value (3 weeks)	Number: Addition and Subtraction (1 week)	Number: Addition and Subtraction (1 week)
Numbers to 10,000 Roman Numerals to 1,000 Round to nearest 10, 100 and 1,000 Compare and order numbers to 100,000 Round numbers within 100,000 Numbers to 1 million Counting in 10s, 100s, 1000s, 10,000s and 100,000s Compare and order numbers to one million Round numbers to one million Negative numbers	Round to estimate and approximate Inverse operations (addition and subtraction)	Multi-step and addition and subtraction problems

Number: Addition and Subtraction (1 week)	Number: Multiplication and Division (2 weeks)	Number: Multiplication and Division (2 weeks)
Add whole numbers with more than 4 digits (column method) Subtract whole numbers with more than 4 digits (column method)	Multiply 4-digits by 1-digit Multiply by 2-digits (area model) Multiply 2-digits by 2-digits Divide 4-digits by 1-digit	Multiply 3-digits by 2-digits Multiply 4-digits by 2-digits Divide with remainders

Number: Multiplication and Division (2 weeks)	Number: Fractions (2 weeks)	Number: Fractions (2 weeks)
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	Add fractions Add mixed numbers Subtract fractions Subtract mixed numbers Subtract – breaking the whole Subtract 2 mixed numbers	Multiply unit fractions by an integer Multiply non-unit fractions by an integer Multiply mixed numbers by integers Fraction of an amount Using fractions as operators

Autumn Term	Spring Term	Summer Term
Number: Fractions (2 weeks)	Number: Decimals and Percentages (2 weeks)	Measurement: Perimeter and Area (1 week)
Equivalent fractions Improper fractions to mixed numbers Mixed number to improper fractions Number sequences Compare and order fractions less than 1 Compare and order fractions greater than 1 Add and subtract fractions Add fractions within 1 Add 3 or more fractions	Adding decimals within 1 Subtracting decimals within 1 Complements to 1 Adding decimals – crossing the whole Adding decimals with the same number of decimal places Subtracting decimals with the same number of decimal places	Area of compound shapes Area of irregular shapes

Number: Decimals and Percentages (2 weeks)	Geometry: Properties of Shape (2 weeks)	Number: Decimals and Percentages (2 weeks)
Decimals up to 2dp Decimals as fractions (1) Decimals as fractions (2) Understand thousandths Thousandths as decimals Rounding decimals Order and compare decimals Understand percentages Percentages as fractions and decimals Equivalent fractions, decimals and percentages	Calculating angles on a straight line Calculating angles around a point Calculating lengths and angles in shapes Regular and irregular polygons Reasoning about 3-D shapes	Adding decimals with a different number of decimal places Subtracting decimals with a different number of decimal places Adding and subtracting wholes and decimals Decimal sequences Multiplying decimals by 10, 100 and 1,000 Dividing decimals by 10, 100 and 1,000

Measurement: Perimeter and Area (1 week)	Measurement: Converting Units (2 weeks)	Geometry: Position and Direction (1 week)
Measure perimeter Calculate perimeter Area of rectangles	Kilograms and kilometres Milligrams and millilitres Metric units Imperial units Converting units of time Timetables	Position in the first quadrant Reflection Reflection with coordinates Translation Translation with coordinates

Geometry: Properties of Shape (1 week)	Statistics (1 week)	Measurement: Volume (1 week)
Measuring angles in degrees Measuring with a protractor (1) Measuring with a protractor (2) Drawing lines and angles accurately	Read and interpret line graphs Draw line graphs Use line graphs to solve problems	What is volume? Compare volume Estimate volume Estimate capacity

		Statistics (1 week)
		Read and interpret tables Two-way tables Timetables

Year 6

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value		Number: Four operations		Number: Fractions		Geometry: Properties of Shape	Number: Decimals	Number: Percentages	Number: Algebra	Number: Ratio	Measurement: Perimeter, area and volume
Spring	Number: Four operations	Number: Fractions	Geometry: Position and Direction	Number: Decimals	Number: Percentages	Statistics	Number: Algebra	Geometry: Properties of Shape	Number: Ratio	Measurement: Perimeter, area and volume	Measurement: Converting Units	Statistics
Summer	Number: Four operations	Number: Fractions	SATS prep									

Year 6 Small Steps

Autumn Term	Spring Term	Summer Term
Number: Place Value (2 weeks)	Number: Four operations (1 week)	Number: Four operations (1 week)
Numbers to ten million Compare and order any number Round any number Negative numbers	Common factors Common multiples Primes to 100 Squares and cubes Order of operations	Mental calculations and estimation Reason from known facts
Number: Four operations (2 weeks)	Number: Fractions (1 week)	Number: Fractions (1 week)
Add and subtract integers Multiply up to a 4-digit number by 2-digit number Short division Division using factors Long division (1) Long division (2) Long division (3) Long division (4)	Mixed addition and subtraction Multiply fractions by integers Multiply fractions by fractions Divide fractions by integers (1) Divide fractions by integers (2)	Four rules with fractions Fraction of an amount Fraction of an amount – find the whole
Number: Fractions (2 weeks)	Geometry: Position and Direction (1 week)	
Simplify fractions Fractions on a number line Compare and order (denominator) Add and subtract fractions (1) Add and subtract fractions (2) Add fractions Subtract fractions	The first quadrant Four quadrants Translations Reflections	
Geometry: Properties of Shape (1 week)	Number: Decimals (1 week)	
Measure with a protractor Introduce angles Calculate angles Vertically opposite angles Angles in a triangle	Division to solve problems Decimals as fractions Fractions to decimals (1) Fractions to decimals (2)	
Number: Decimals (1 week)	Number: Percentages (1 week)	
Three decimal places Multiply by 10, 100 and 1,000 Divide by 10, 100 and 1,000 Multiply decimals by integers Divide decimals by integers	Percentage of an amount (1) Percentage of an amount (2) Percentages – missing values	

Autumn Term	Spring Term	Summer Term
Number: Percentages (1 week)	Statistics (1 week)	
Fractions to percentages Equivalent FDP Order FDP	Read and interpret line graphs Draw line graphs Use line graphs to solve problems Circles	
Number: Algebra (1 week)	Number: Algebra (1 week)	
Find a rule – one step Find a rule – two step Forming expression Substitution Formulae Forming equations	Solve simple one-step equations Solve two-step equations Find pairs of values Enumerate possibilities	
Number: Ratio (1 week)	Geometry: Properties of Shape (1 week)	
Using ratio language Ratio and fractions Introducing the ratio symbol Calculating ratio	Angles in a triangle – special cases Angles in a triangle – missing angles Angles in special quadrilaterals Angles in regular polygons Draw shapes accurately Draw nets of 3-D shapes	
Measurement: Perimeter, area volume (1 week)	Number: Ratio (1 week)	
Shape – same area Area and perimeter Area of a triangle (1) Area of a triangle (2) Area of a triangle (3)	Using scale factors Calculating scale factors Ratio and proportion problems	
	Measurement: Perimeter, area & volume (1 week)	
	Area of a parallelogram Volume – counting cubes Volume of a cuboid	
	Measurement: Converting Units (1 week)	
	Metric measures Convert metric measures Calculate with metric measures Miles and kilometres Imperial measures	
	Statistics (1 week)	
	Read and interpret pie charts Pie charts with percentages Draw pie charts The mean	

