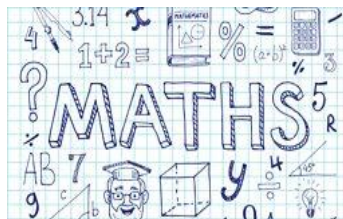


KNOWLEDGE



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				Number: Addition and Subtraction		Geometry: Shape	Number: Place Value	Number: Multiplication		Geometry: Position and Direction	Measurement: Time
Spring	Number: Place value			Statistics	Number: Fractions	Geometry: Shape	Number: Addition and Subtraction		Measurement: Length and Height	Number: Multiplication and Division		Measurement: Weight, mass, volume, capacity, temperature
Summer	Number: Addition and Subtraction		Number: Fractions	Measurement: Time	Geometry: Shape	Measurement: Weight, mass, volume, capacity, 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 (3 weeks)		Number: Addition and Subtraction (2 weeks)	
Year 1	Year 2	Year 1	Year 2	Year 1	Year 2
Sort objects		Counting to 100		Add by counting on	
Count objects	Count objects to 10 and read and write numbers in numerals and words	Partitioning numbers		Find and make number bonds	
Represent objects	Represent numbers to 100	Comparing numbers (1)		Add by making 10	Add three 1-digit numbers
Count, read and write forwards from any number 0 to 10	Tens and ones with a part-whole model	Comparing numbers (2)		Subtraction – Not crossing 10	
Count, read and write backwards from any number 0 to 10	Tens and ones using addition	Ordering numbers		Subtraction – Crossing 10 (1)	Subtract a 2-digit number from a 2-digit number – crossing ten – subtract ones and tens
Count one more	Use a place value chart	One more, one less		Subtraction – Crossing 10 (2)	
Count one less		Recognising coins	Count money – pence	Related facts	
One-to-one correspondence to start to compare groups		Counting in coins	Count money – notes and coins	Compare number sentences	
Compare groups using language such as equal, more/greater, less/fewer		Recognising notes	Count money – pounds (notes and coins)		Bonds to 100 (tens and ones)
Introduce <, > and = symbols	Compare objects		Select money		
Compare numbers	Compare numbers		Make the same amount		
Order groups of objects	Order objects and numbers		Compare money		

Order numbers			Find the total		
Ordinal numbers (1 st , 2 nd , 3 rd ...)			Find the difference		
The number line			Find change		
Count forwards and backwards and write number to 20 in numerals and words			Two-step problems		
Number 11-20					
Tens and ones					
Count one more and one less	Count in 2s, 5s and 10s				
	Count in 3s				
Compare groups of objects					
Compare numbers					
Order groups of objects					
Order numbers					

Autumn Term		Spring Term		Summer Term	
Number: Addition and Subtraction (2 weeks)		Statistics (1 week)		Number: Fractions (1 week)	
Year 1	Year 2	Year 1	Year 2	Year 1	Year 2
Part-whole model			Make tally charts	Find a quarter (1)	Recognise a third
Addition symbol			Draw pictograms (1-1)	Find a quarter (2)	Find a third

Fact families – addition facts			Interpret pictograms (1-1)		Unit fractions
Find number bonds for numbers within 10	Fact families – addition and subtraction bonds to 20				Non-unit fractions
	Check calculations				Equivalence of $\frac{1}{2}$ and $\frac{2}{4}$
	Compare number sentences				Find three quarters
	Related facts				Count in fractions
Systematic methods for number bonds within 10					
Number bonds to 10	Bond to 100 (tens)				
Compare number bonds					
Addition – adding together					
Addition – adding more	Add and subtract 1s				
Finding a part					

Geometry: Shape (1 week)		Number: Fractions (1 week)		Measurement: Time (1 week)	
Year 1	Year 2	Year 1	Year 2	Year 1	Year 2
Recognise and name 3-D shapes	Recognise 2-D and 3-D shapes		Make equal parts		Hours and days
Sort 3-D shapes	Count sides of 2-D shapes		Recognise a half	Time to the half hour	
	Count vertices on 2-D shapes	Find a half (1)	Find a half	Writing time	
	Draw 2-D shapes	Find a half (2)			Find durations of time

			Recognise a quarter	Comparing time	Compare durations of time
			Find a quarter		

Autumn Term		Spring Term		Summer Term	
Number: Place Value (1 week)		Geometry: Shape (1 week)		Geometry: Shape (1 week)	
Year 1	Year 2	Year 1	Year 2	Year 1	Year 2
Numbers to 50		Recognise and name 2-D shapes			Count faces on 3-D shapes
Tens and ones		Sort 2-D shapes	Sort 2-D shapes		Count edges on 3-D shapes
Represent numbers to 50			Make patterns with 2-D shapes		Count vertices on 3-D shapes
One more one less			Lines of symmetry		Sort 3-D shapes
Compare objects within 50					Make patterns with 3-D shapes
Compare numbers within 50				Patterns with 3-D and 2-D shapes	
Order numbers within 50					
Count in 2s					
Count in 5s					

Number: Multiplication (2 weeks)		Number: Addition and Subtraction (2 weeks)		Measurement: Weight, Volume, Mass, Capacity and Temperature (1 week)	
Year 1	Year 2	Year 1	Year 2	Year 1	Year 2

Count in 10s			Add a 2-digit and 1-digit number – crossing ten	Introduce capacity and volume	
Make equal groups	Recognise equal groups	Subtraction – taking away, how many left? Crossing out		Measure capacity	Millilitres
	Make equal groups	Subtraction – taking away, how many left?			Litres
Add equal groups	Add equal groups	Introducing the subtraction symbol		Compare capacity	
	Multiplication sentences using the x symbol	Subtraction – finding a part, breaking apart			Temperature
	Multiplication sentences from pictures	Fact families – the 8 facts			
Make arrays	Use arrays	Subtraction – counting back			
Make doubles		Subtraction – finding the difference			
		Comparing addition and subtraction statements $a + b > c$			
		Comparing addition and subtraction statements $a + b > c + D$			
			Subtract a 1-digit number from a 2-digit number – crossing 10		
			Add two 2-digit numbers – not crossing ten – add ones and add tens		
			Add two 2-digit numbers – crossing ten – add ones and add tens		
			Subtract a 2-digit number from a 2-digit number – not crossing ten		

Autumn Term		Spring Term		Summer Term	
Geometry: Position and Direction (1 week)		Measurement: Length and Height (1 week)		Statistics (1 week)	
Year 1	Year 2	Year 1	Year 2	Year 1	Year 2
	Describing movement	Measure length (1)	Measure length (cm)		Draw pictograms (2, 5 and 10)
Describe turns	Describing turns	Measure length (2)	Measure length (m)		Interpret pictograms (2, 5 and 10)
	Describing movement and turns	Compare lengths and heights	Compare lengths		Block diagrams
Describe position (1)			Order lengths		
Describe position (2)			Four operations with lengths		
	Making patterns with shapes				

Measurement: Time (1 week)		Number: Multiplication and Division (2 weeks)			
Year 1	Year 2	Year 1	Year 2		
Before and after		Make equal groups – grouping	Make equal groups – grouping		
Dates		Make equal groups - sharing	Make equal groups – sharing		
Time to the hour	O'clock and half past		Divide by 2		
	Quarter past and quarter to		Odd and even numbers		
	Telling time to 5 minutes		Divide by 5		
			Divide by 10		

		Measurement: Weight, Volume, Mass, Capacity and Temperature (1 week)			
		Year 1	Year 2		
		Introduce weight and mass			
			Compare mass		
		Measure mass	Measure mass in grams		
			Measure mass in kilograms		
		Compare mass			
			Compare volume		

Year 3/4

	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: 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		Number: Decimals		Measurement: Length and Perimeter	Number: Fractions	Measurement: Time	Measurement: Mass and capacity	Geometry: Properties of Shape	Statistics	Geometry: Position and Direction

Year 3/4 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)	
Year 3	Year 4	Year 3	Year 4	Year 3	Year 4
Hundreds	Round to the nearest 10 Round to the nearest 100	Add and subtract 100s		Subtract a 3-digit number from a 3-digit number – no exchange	
Representation to 1,000	Count in 1,000s	Spot the pattern – making it explicit		Subtract a 3-digit number from a 3-digit number – exchange	
100s, 10s and 1s (1)	1,000s, 100s, 10s and 1s	Add and subtract 2-digit and 3-digit numbers – not crossing 10 or 100			Efficient subtraction
100s, 10s and 1s (2)	Partitioning	Add a 2-digit and 3-digit numbers – crossing 10 or 100		Estimate answers to calculations	Estimate answers
Number line to 1,000	Number line to 10,000	Subtract a 2-digit number from a 3-digit number – crossing 10 or 100		Check answers	Checking strategies
Find 1, 10, 100 more or less than a given number	1,000 more or less	Add two 3-digit numbers - not crossing 10 or 100			
Compare objects to 1,000	Compare numbers	Add two 3-digit numbers – crossing 10 or 100			
Compare numbers to 1,000	Round to the nearest 1,000		Subtract two 4-digit numbers – no exchange		
Order numbers	Order numbers		Subtract two 4-digit numbers – one exchange		
Count in 50s	Count in 25s		Subtract two 4-digit numbers – more than one exchange		
	Roman Numerals to 100				
	Negative numbers				

Number: Addition and Subtraction (2 weeks)		Number: Multiplication and Division (2 weeks)		Number: Multiplication and Division (2 weeks)	
Year 3	Year 4	Year 3	Year 4	Year 3	Year 4
Add and subtract multiples of 100	Add and subtract 1s, 10s, 100s and 1,000s		Multiply 3 numbers	Divide 2-digits by 1-digit (1)	Divide 2-digits by 1-digit (1)
Add and subtract 3-digit and 1-digit numbers – not crossing 10			Factor pairs	Divide 2-digits by 1-digit (2)	Divide 2-digits by 1-digit (2)
Add 3-digit and 1-digit numbers – crossing 10			Efficient multiplication	Divide 2-digits by 1-digit (3)	Divide 3-digits by 1-digit
Subtract a 1-digit number from a 3-digit number – crossing 10			Written methods	Scaling	
Add and subtract 3-digit and 2-digit numbers – not crossing 100		Multiply 2-digits by 1-digit (1)	Multiply 2-digits by 1-digit		Correspondence problems
Add 3-digit and 2-digit numbers – crossing 100	Add two 4-digit numbers – no exchange	Multiply 2-digits by 1-digit (2)		How many ways?	
	Add two 4-digit numbers – one exchange		Multiply 3-digits by 1-digit		
	Add two 4-digit numbers – more than one exchange				
Subtract a 2-digit number from a 3-digit number – crossing 100					

Number: Multiplication and Division (2 weeks)		Measurement: Time (2 weeks)		Number: Decimals	
Year 3	Year 4	Year 3	Year 4	Year 3	Year 4
Multiplication – equal groups	Multiply by 10		Hours, minutes and seconds		Hundredths
	Multiply by 100	Months and years	Years, months, weeks and days		Hundredths as decimals
	Divide by 10	Hours in day			Hundredths on a place value grid
	Divide by 100	Telling the time to 5 minutes			Divide 1 or 2-digits by 100

	Multiply by 1 and 0	Telling the time to the minute			Make a whole
	Divide by 1 and itself	Using a.m. and p.m.			Write decimals
			Analogue to digital – 12 hour		Compare decimals
		24-hour clock	Analogue to digital – 24 hour		Order decimals
					Round decimals
					Halves and quarters

Measurement: Money (1 week)		Number: Fractions (2 weeks)		Measurement: Length and Perimeter (1 week)	
Year 3	Year 4	Year 3	Year 4	Year 3	Year 4
Pounds and pence	Pounds and pence	Fractions of a set of objects (1)			What is area?
Convert pounds and pence		Fractions of a set of objects (2)			Counting squares
	Ordering money	Fractions of a set of objects (3)			Making shapes
	Estimating money	Equivalent fractions (1)			Comparing area
Add money	Four operations	Equivalent fractions (2)			
Subtract money		Equivalent fractions (3)			
Give change			Fractions greater than 1		
			Count in fractions		
			Add 2 or more fractions		
			Subtract 2 fractions		
			Subtract from whole amounts		

Number: Fractions (2 weeks)		Geometry: Properties of Shape (1 week)		Number: Fractions (1 week)	
Year 3	Year 4	Year 3	Year 4	Year 3	Year 4
	What is a fraction	Turns and angles	Identify angles	Compare fractions	
Unit and non-unit fractions Making the whole		Right angles in shapes		Order fractions	
		Compare angles	Compare and order angles	Add fractions	
	Equivalent fractions (1)	Draw accurately		Subtract fractions	
	Equivalent fractions (2)	Horizontal and vertical			Calculate fractions of a quantity
Tenths	Recognise tenths and hundredths		Triangles		Problem solving – calculate quantities
Count in tenths					
Tenths as decimals	Tenths as decimals				
	Tenths on a place value grid				
	Tenths on a number line				
Fractions on a number line					
	Divide 1-digit by 10				
	Divide 2-digits by 10				

Measurement: Length and Perimeter (2 weeks)		Measurement: Mass and Capacity (2 weeks)		Measurement: Time (1 week)	
Year 3	Year 4	Year 3	Year 4	Year 3	Year 4
Measure length		Measure mass (1)		Finding the duration	
Equivalent lengths – m & cm		Measure mass (2)		Comparing durations	
Equivalent lengths – mm & cm		Compare mass		Start and end times	

	Kilometres	Add and subtract mass		Measuring time in seconds	
Compare lengths		Measure capacity (1)			
Add lengths		Measure capacity (2)			
Subtract lengths					
Measure perimeter	Perimeter on a grid				
Calculate perimeter					
	Perimeter of a rectangle				
	Perimeter of rectilinear shapes				

		Statistics (1 week)		Measurement: Mass and Capacity (1 week)	
		Year 3	Year 4	Year 3	Year 4
		Pictograms		Compare capacity	
		Bar charts	Interpret charts	Add and subtract capacity	
			Comparison, sum and difference		

		Geometry: Properties of Shape (1 week)			
				Year 3	Year 4
				Parallel and perpendicular	
				Recognise and describe 2-D shapes	
				Recognise and describe 3-D shapes	
				Make 3-D shapes	

					Quadrilaterals
					Lines of symmetry
					Complete a symmetric figure

				Statistics (1 week)	
				Year 3	Year 4
				Tables	
					Introducing line graphs
					Line graphs

				Geometry: Position and Direction	
				Year 3	Year 4
					Describe a position
					Draw on a grid
					Move on a grid
					Describe movement on a grid

	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	
Spring	Number: Addition and Subtraction	Number: Multiplication and Division		Geometry: Properties of Shape	Measurement: Area	Number: Decimals		Number: Fractions		Measurement: Money	Statistics	Measurement: Converting units
Summer	Number: Addition and Subtraction	Number: Multiplication and Division		Number: Decimals		Number: Fractions	Geometry: Position and Direction	Measurement: Time	Geometry: Properties of Shape		Measurement: Volume	Consolidation

Year 4/5 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)	
Year 4	Year 5	Year 4	Year 5	Year 4	Year 5
Roman Numerals to 100	Roman Numerals to 1,000	Subtract two 4-digit numbers – no exchange		Efficient subtraction	
Count in 1,000s		Subtract two 4-digit numbers – one exchange		Estimate answers	
1,000s, 100s, 10s and 1s		Subtract two 4-digit numbers – more than one exchange		Checking strategies	
Partitioning					Multi-step and addition and subtraction problems
Number line to 10,000	Numbers to 10,000				
1,000 more or less					
Round to the nearest 10	Round to nearest 10, 100 and 1,000				
Round to the nearest 100					
Compare numbers	Compare and order numbers to 100,000				
Order numbers					
Round to the nearest 1,000	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				
Count in 25s					
Negative numbers	Negative numbers				

Number: Addition and Subtraction (2 weeks)		Number: Multiplication and Division (2 weeks)		Number: Multiplication and Division (2 weeks)	
Year 4	Year 5	Year 4	Year 5	Year 4	Year 5
Add and subtract 1s, 10s, 100s and 1,000s		Multiply 3 numbers			Multiply 3-digits by 2-digits
Add two 4-digit numbers – no exchange	Add whole numbers with more than 4 digits (column method)	Factor pairs Efficient multiplication			Multiply 4-digits by 2-digits
Add two 4-digit numbers – one exchange		Written methods		Divide 2-digits by 1-digit (1)	Divide with remainders
Add two 4-digit numbers – more than one exchange		Multiply 2-digits by 1-digit	Multiply 4-digits by 1-digit	Divide 2-digits by 1-digit (2)	
	Multiply 3-digits by 1-digit	Divide 3-digits by 1-digit			
	Subtract whole numbers with more than 4 digits (column method)		Multiply by 2-digits (area model)	Correspondence problems	
			Multiply 2-digits by 2-digits		
			Divide 4-digits by 1-digit		

Number: Multiplication and Division (2 weeks)		Measurement: Area (1 week)		Number: Decimals (2 weeks)	
Year 4	Year 5	Year 4	Year 5	Year 4	Year 5
	Multiples	What is area?		Compare decimals	
	Factors Common factors	Counting squares		Order decimals	

	Prime numbers	Making shapes		Round decimals	
	Square numbers	Comparing area		Halves and quarters	
	Cube numbers		Area of compound shapes		Adding decimals with a different number of decimal places
Multiply by 10	Multiply by 10, 100 and 1,000		Area of irregular shapes		Subtracting decimals with a different number of decimal places
Multiply by 100					Adding and subtracting wholes and decimals
Divide by 10	Divide by 10, 100 and 1,000				Decimal sequences
Divide by 100					Multiplying decimals by 10, 100 and 1,000
	Multiples of 10, 100 and 1,000				Dividing decimals by 10, 100 and 1,000
Multiply by 1 and 0					
Divide by 1 and itself					

Measurement: Length and Perimeter (1 week)		Number: Decimals (2 weeks)		Number: Fractions (1 week)	
Year 4	Year 5	Year 4	Year 5	Year 4	Year 5
Kilometres		Hundredths			Multiply unit fractions by an integer
Perimeter on a grid	Measure perimeter	Hundredths as decimals			Multiply non-unit fractions by an integer
Perimeter of a rectangle		Hundredths on a place value grid			Multiply mixed numbers by integers
Perimeter of rectilinear shapes	Calculate perimeter	Divide 1 or 2-digits by 100		Calculate fractions of a quantity	Fraction of an amount

	Area of rectangles	Make a whole		Problem solving – calculate quantities	
		Write decimals			Using fractions as operators
			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		

Number: Fractions (2 weeks)		Geometry: Properties of Shape (1 week)		Geometry: Position and Direction (1 week)	
Year 4	Year 5	Year 4	Year 5	Year 4	Year 5
What is a fraction		Identify angles		Describe a position	Position in the first quadrant
Equivalent fractions (1)	Equivalent fractions	Compare and order angles		Draw on a grid	
Equivalent fractions (2)		Triangles		Move on a grid	Translation
	Improper fractions to mixed numbers		Measuring angles in degrees	Describe movement on a grid	Translation with coordinates
	Mixed number to improper fractions		Measuring with a protractor (1)		Reflection
	Number sequences		Measuring with a protractor (2)		Reflection with coordinates
	Compare and order fractions less than 1		Drawing lines and angles accurately		

	Compare and order fractions greater than 1				
	Add and subtract fractions				
	Add fractions within 1				
	Add 3 or more fractions				

Number: Decimals (2 weeks)		Number: Fractions (2 weeks)		Measurement: Time (1 week)	
Year 4	Year 5	Year 4	Year 5	Year 4	Year 5
Recognise tenths and hundredths		Fractions greater than 1		Hours, minutes and seconds	
Tenths as decimals		Count in fractions		Years, months, weeks and days	
Tenths on a place value grid	Decimals up to 2dp	Add 2 or more fractions	Add fractions	Analogue to digital – 12 hour	
Tenths on a number line			Add mixed numbers	Analogue to digital – 24 hour	
Divide 1-digit by 10		Subtract 2 fractions	Subtract fractions		
Divide 2-digits by 10			Subtract mixed numbers		
	Decimals as fractions (1)	Subtract from whole amounts	Subtract – breaking the whole		
	Decimals as fractions (2)		Subtract 2 mixed numbers		
	Understand thousandths				
	Thousandths as decimals				
	Rounding decimals				
	Order and compare decimals				
	Understand percentages				

	Percentages as fractions and decimals				
	Equivalent fractions, decimals and percentages				

		Measurement: Money (1 week)		Geometry: Properties of Shape (2 weeks)	
		Year 4	Year 5	Year 4	Year 5
		Pounds and pence		Quadrilaterals	
		Ordering money		Lines of symmetry	
		Estimating money		Complete a symmetric figure	
		Four operations			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

		Statistics (1 week)		Measurement: Volume (1 week)	
		Year 4	Year 5	Year 4	Year 5
		Interpret charts		What is volume?	
		Comparison, sum and difference		Compare volume	
		Introducing line graphs		Estimate volume	
		Line graphs		Estimate capacity	

			Read and interpret line graphs		
			Draw line graphs		
			Use line graphs to solve problems		

		Measurement: Converting units (1 week)			
		Year 4	Year 5		
			Kilograms and kilometres		
			Milligrams and millilitres		
			Metric units		
			Imperial units		
			Converting units of time		
		Read and interpret tables			
		Two-way tables			
		Timetables	Timetables		

Year 5/6

	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: Addition and Subtraction	Number: Multiplication and division		Number: Fractions		Number: Decimals and percentages		Measurement: Perimeter and Area	Geometry: Properties of Shape	Number: Algebra
Spring	Number: Addition and Subtraction	Number: Multiplication and division		Number: Fractions		Number: Decimals and percentages		Geometry: Properties of Shape	Measurement: Converting Units		Statistics	Number: Ratio
Summer	Geometry: Position and Direction	Measurement: Volume	Statistics	Number: Multiplication and division	Number: Fractions		Measurement: Perimeter and area	Number: Decimals and percentages		Consolidation		

Year 5/6 Small Steps

Autumn Term		Spring Term		Summer Term	
Number: Place Value (3 weeks)		Number: Addition and Subtraction (1 week)		Geometry: Position and Direction (1 week)	
Year 5	Year 6	Year 5	Year 6	Year 5	Year 6
Numbers to 10,000	Numbers to ten million	Round to estimate and approximate	Mental calculations and estimation	Position in the first quadrant	The first quadrant
Roman Numerals to 1,000		Inverse operations (addition and subtraction)			Four quadrants
Round to nearest 10, 100 and 1,000	Round any number	Multi-step and addition and subtraction problems		Reflection	Reflections
Round numbers within 100,000			Reason from known facts	Reflection with coordinates	
Compare and order numbers to 100,000	Compare and order any number			Translation	Translations
Numbers to 1 million				Translation with coordinates	
Counting in 10s, 100s, 1000s, 10,000s and 100,000s					
Compare and order numbers to one million					
Round numbers to one million					
Negative numbers	Negative numbers				

Number: Addition and Subtraction (1 week)		Number: Multiplication and Division (2 weeks)		Measurement: Volume (1 week)	
Year 5	Year 6	Year 5	Year 6	Year 5	Year 6
Add whole numbers with more than 4 digits (column method)	Add and subtract integers	Multiply 2-digits by 2-digits		What is volume?	Volume – counting cubes
		Divide 4-digits by 1-digit		Compare volume	Volume of a cuboid

Subtract whole numbers with more than 4 digits (column method)			Order of operations	Estimate volume	
			Short division	Estimate capacity	
			Division using factors		Area of a parallelogram
			Long division (1)		
			Long division (2)		
			Long division (3)		
			Long division (4)		

Number: Multiplication and Division (2 weeks)		Number: Fractions (2 weeks)		Statistics (1 week)	
Year 5	Year 6	Year 5	Year 6	Year 5	Year 6
Multiples	Common multiples	Add fractions	Mixed addition and subtraction	Two-way tables	
Factors		Add mixed numbers		Read and interpret tables	
Common factors	Common factors	Subtract fractions		Timetables	
Prime numbers	Primes to 100	Subtract mixed numbers			Read and interpret pie charts
Square numbers	Squares and cubes	Subtract – breaking the whole			Pie charts with percentages
Cube numbers		Subtract 2 mixed numbers			Draw pie charts
Multiply 4-digits by 1-digit				Multiply fractions by integers	
Multiply by 2-digits (area model)	Multiply up to a 4-digit number by 2-digit number		Multiply fractions by fractions		
			Divide fractions by integers (1)		

			Divide fractions by integers (2)		
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Autumn Term		Spring Term		Summer Term	
Number: Fractions (2 weeks)		Number: Decimals and Percentages (2 weeks)		Number: Multiplication and Division (1 week)	
Year 5	Year 6	Year 5	Year 6	Year 5	Year 6
Equivalent fractions		Adding decimals within 1		Multiply 3-digits by 2-digits	
	Simplify fractions	Subtracting decimals within 1		Multiply 4-digits by 2-digits	
Improper fractions to mixed numbers	Compare and order (denominator)	Complements to 1		Divide with remainders	
Mixed number to improper fractions		Adding decimals – crossing the whole			
Number sequences		Adding decimals with the same number of decimal places			
Compare and order fractions less than 1	Fractions on a number line	Subtracting decimals with the same number of decimal places			
Compare and order fractions greater than 1			Division to solve problems		
Add and subtract fractions	Add and subtract fractions (1)		Decimals as fractions		
	Add and subtract fractions (2)				
Add fractions within 1	Add fractions		Fractions to decimals (1)		
Add 3 or more fractions			Fractions to decimals (2)		
	Subtract fractions		Percentage of an amount (1)		
			Percentage of an amount (2)		
			Percentages – missing values		

Number: Decimals and Percentages (2 weeks)		Geometry: Properties of Shape (2 weeks)		Number: Fractions (2 weeks)	
Year 5	Year 6	Year 5	Year 6	Year 5	Year 6
Decimals up to 2dp	Three decimal places	Calculating angles on a straight line		Multiply unit fractions by an integer	
Decimals as fractions (1)		Calculating angles around a point		Multiply non-unit fractions by an integer	
		Calculating lengths and angles in shapes		Multiply mixed numbers by integers	
Decimals as fractions (2)		Regular and irregular polygons	Angles in regular polygons	Fraction of an amount	Fraction of an amount
Understand thousandths		Reasoning about 3-D shapes			
Thousandths as decimals			Angles in a triangle – special cases	Using fractions as operators	Fraction of an amount – find the whole
Multiply by 10, 100 and 1,000 (not decimals)	Multiply by 10, 100 and 1,000		Angles in a triangle – missing angles		Four rules with fractions
Divide by 10, 100 and 1,000 (not decimals)	Divide by 10, 100 and 1,000		Angles in special quadrilaterals		
Multiples of 10, 100 and 1,000 (not decimals)	Multiply decimals by integers		Draw shapes accurately		
	Divide decimals by integers		Draw nets of 3-D shapes		
Rounding decimals					
Order and compare decimals					
Understand percentages					
Percentages as fractions and decimals	Fractions to percentages				
Equivalent FDP	Equivalent FDP				
	Order FDP				

Measurement: Perimeter and Area (1 week)		Measurement: Converting Units (2 weeks)		Measurement: Perimeter and Area (1 week)	
Year 5	Year 6	Year 5	Year 6	Year 5	Year 6
Measure perimeter		Kilograms and kilometres		Area of compound shapes	
Calculate perimeter		Milligrams and millilitres		Area of irregular shapes	
Area of rectangles	Shape – same area Area and perimeter	Metric units	Metric measures		
			Convert metric measures		
			Calculate with metric measures		
	Area of a triangle (1)	Imperial units	Imperial measures		
	Area of a triangle (2)		Miles and kilometres		
	Area of a triangle (3)	Converting units of time			
		Timetables			

Geometry: Properties of Shape (1 week)		Statistics (1 week)		Number: Decimals and Percentages (2 weeks)	
Year 5	Year 6	Year 5	Year 6	Year 5	Year 6
Measuring angles in degrees	Measure with a protractor	Read and interpret line graphs	Read and interpret line graphs	Adding decimals with a different number of decimal places	
Measuring with a protractor (1)		Draw line graphs	Draw line graphs	Subtracting decimals with a different number of decimal places	
Measuring with a protractor (2)		Use line graphs to solve problems	Use line graphs to solve problems	Adding and subtracting wholes and decimals	
Drawing lines and angles accurately	Introduce angles		Circles	Decimal sequences	
	Calculate angles			Multiplying decimals by 10, 100 and 1,000	

	Vertically opposite angles			Dividing decimals by 10, 100 and 1,000	
	Angles in a triangle				

Number: Algebra (1 week)		Number: Ratio (1 week)			
Year 5	Year 6	Year 5	Year 6		
	Find a rule – one step		Using ratio language		
	Find a rule – two step		Ratio and fractions		
	Forming expression		Introducing the ratio symbol		
	Substitution		Calculating ratio		
	Formulae		Using scale factors		
	Forming equations		Calculating scale factors		
	Solve simple one-step equations		Ratio and proportion problems		
	Solve two-step equations				
	Find pairs of values				
	Enumerate possibilities				

Number: Algebra (1 week)		Number: Ratio (1 week)			
Year 5	Year 6	Year 5	Year 6		
	Find a rule – one step		Using ratio language		
	Find a rule – two step		Ratio and fractions		
	Forming expression		Introducing the ratio symbol		
	Substitution		Calculating ratio		

	Formulae		Using scale factors		
	Forming equations		Calculating scale factors		
	Solve simple one-step equations		Ratio and proportion problems		
	Solve two-step equations				
	Find pairs of values				
	Enumerate possibilities				