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Year 3											
Autumn Term	Place Value		Addition & Subtraction		Multiplication & Division						
	<ul style="list-style-type: none"> Represent numbers to 100 Partition numbers to 100 Number line to 100 Hundreds Represent numbers to 1000 Partition numbers to 1000 Flexible partitioning of numbers to 1000 		<ul style="list-style-type: none"> Hundreds, tens & ones Find 1, 10 or 100 more or less Number line to 1000 Estimate on a number line to 1000 Compare numbers to 1000 Order numbers to 1000 Count in 50s 		<ul style="list-style-type: none"> Apply number bonds within 10 Add & subtract 1s Add & subtract 10s Add & subtract 100s Spot patterns Add ones 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 & 3-digit numbers Subtract 2-digit from 3-digit numbers 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 & 10 Sharing & grouping Multiply by 3 Divide by 3 3x tables 		<ul style="list-style-type: none"> Multiply by 4 Divide by 4 4x tables Multiply by 8 Divide by 8 8x tables 2, 4 & 8x tables
Spring term	Multiplication & Division		Length & Perimeter		Fractions		Mass & Capacity				
	<ul style="list-style-type: none"> Multiples of 10 Related calculations Reasoning about multiplication Multiply 2-digit by 1-digit number – no exchange Multiply 2-digit by 1-digit number – with exchange Link multiplication & division Divide a 2-digit by 1-digit number – no exchange Divide a 2-digit by 1-digit number – flexible partitioning Divide a 2-digit by 1-digit number – with remainders Scaling How many ways? 		<ul style="list-style-type: none"> Measure in m & cm Measure in mm Measure in cm & mm M, cm & mm Equivalent lengths (m & cm) Equivalent lengths (cm & mm) Compare lengths Add lengths Subtract lengths What is perimeter? Measure perimeter Calculate perimeter 		<ul style="list-style-type: none"> Understand denominators of unit fractions Compare & order unit fractions Understand numerators of unit fractions Understand the whole Compare & order non-unit fractions Fractions & scales Fractions on a number line Count in fractions on a number line Equivalent fractions on a number line Equivalent fractions as bar models 		<ul style="list-style-type: none"> Use scales Measure mass in grams Measure mass in kg & g Equivalent masses (kg & g) Compare mass Add & subtract mass Measure capacity & volume in ml Measure capacity & volume in litres & ml Equivalent capacities & volumes (l & ml) Compare capacity & volume Add & subtract capacity & volume 				
Summer term	Fractions		Money		Time		Shape		Statistics		
	<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"> Pounds & pence Convert pounds & pence Add money Subtract money Find change 		<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 & pm Years, months & days Days & hours Hours & minutes – use start & end times Hours & minutes – use durations Minutes & seconds Units of time Solve problems with time 		<ul style="list-style-type: none"> Turns & angles Right angles Compare angles Measure & draw accurately Horizontal & vertical Parallel & perpendicular Recognise & describe 2D shapes Draw polygons Recognise & describe 3D shapes Make 3D shapes 		<ul style="list-style-type: none"> Interpret pictograms Draw pictograms Interpret bar charts Draw bar charts Collect & represent data Two-way tables 		

Year 4

Autumn Term	Place Value		Addition & Subtraction		Area		Multiplication & Division					
	<ul style="list-style-type: none"> • Represent number to 1000 • Partition numbers to 1000 • Number line to 1000 • Thousands • Represent numbers to 10,000 • Partition numbers to 10,000 • Flexible partitioning of numbers to 10,000 • Find 1, 10, 100, 1000 more or less • Number line to 10,000 		<ul style="list-style-type: none"> • 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 1000 • Round to the nearest 10, 100 or 1000 		<ul style="list-style-type: none"> • Add & subtract 1s, 10s, 100s and 1000s • 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 4-digit numbers – one exchange • Subtract 4-digit numbers – more than one exchange • Efficient subtraction • Estimate answers • Checking strategies 		<ul style="list-style-type: none"> • What is area? • Count squares • Make shapes • Compare areas 		<ul style="list-style-type: none"> • Multiples of 3 • Multiply & divide by 6 • 6x tables & division facts • Multiply & divide by 9 • 9x tables & division facts • 3, 6 & 9x tables • Multiply & divide by 7 • 7x tables & division facts • 11x tables & division facts • 12x tables & division facts • Multiply by 1 & 0 • Divide a number by 1 & itself • Multiply 3 numbers 			
Spring term	Multiplication & Division			Shape		Fractions			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 & division • Informal written methods for multiplication • Multiply 2-digit by 1-digit number • Multiply 3-digit by 1-digit number • Divide 2-digit by 1-digit number • Divide 3-digit by 1-digit number • Correspondence problems • Efficient multiplication 			<ul style="list-style-type: none"> • Know 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"> • Understand the whole • Count beyond 1 • Partition a mixed number • Number lines with mixed numbers • Compare & order mixed numbers • Understand improper fractions • Convert mixed numbers to improper fractions • Convert improper fractions to mixed numbers • Equivalent fractions on a number line • Equivalent fraction families • Add two or more fractions • Add fractions & mixed numbers • Subtract two fractions • Subtract from whole amounts • Subtract from mixed numbers 			<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 • Divide a 1 or 2-digit number by 100 			
Summer term	Decimals		Money		Time		Length & Perimeter		Statistics		Position & Direction	
	<ul style="list-style-type: none"> • Make a whole with tenths • Make a whole with hundredth • Partition decimals • Flexibly partition decimals • Compare decimals • Order decimals • Round to the nearest whole number • Halves & quarters as decimals 		<ul style="list-style-type: none"> • Write money using decimals • Convert between pounds & pence • Compare amounts of money • Estimate with money • Calculate with money • Solve problems with money 		<ul style="list-style-type: none"> • Years, months, weeks & days • Hours, minutes & seconds • Convert between analogue & digital times • Convert to the 24-hour clock • Convert from the 24-hour clock 		<ul style="list-style-type: none"> • Measure in km & m • Equivalent lengths (km & m) • 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 or polygons 		<ul style="list-style-type: none"> • Interpret charts • Comparison, sum & difference • Interpret line graphs • Draw line graphs 		<ul style="list-style-type: none"> • Describe position using coordinates • Plot coordinates • Draw 2D shapes on a grid • Translate on a grid • Describe translation on a grid 	

Year 5

Autumn Term	Place Value		Addition & Subtraction		Multiplication & Division		Fractions		
	<ul style="list-style-type: none"> Roman numerals to 1000 Numbers to 10,000 Numbers to 100,000 Numbers to 1,000,000 Read & write numbers to 1,000,000 Powers of 10 10 / 100 / 1000 / 10,000 / 100,000 more or less Partition numbers to 1,000,000 		<ul style="list-style-type: none"> Number line to 1,000,000 Compare & order numbers to 100,000 Compare & order numbers to 1,000,000 Round to the nearest 10, 100 or 1000 Round within 100,000 Round within 1,000,000 		<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 Mult-step addition & subtraction problems Compare calculations Find missing numbers 		<ul style="list-style-type: none"> Multiples Common multiples Factors Common factors Prime numbers Square numbers Cube numbers Multiply by 10, 100 & 1000 Divide by 10, 100 & 1000 Multiples of 10, 100 & 1000 		<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 & order fractions greater than 1 Add & 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
Spring term	Multiplication & Division		Fractions		Decimals & Percentage		Perimeter & Area		Statistics
	<ul style="list-style-type: none"> Multiply up to a 4-digit by 1-digit number Multiply 2-digit by 2-digit (area model) number Multiply 2-digit by 2-digit number Multiply 3-digit by 2-digit number Multiply 4-digit by 2-digit number Solve problems with multiplication Short division Divide 4-digit by 1-digit number Divide with remainders Efficient division Solve problems with multiplication and division 		<ul style="list-style-type: none"> 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 & decimals (tenths) Equivalent fractions & decimals Thousandths as fractions Thousandths as decimals Thousandths on a place value chart Order & compare decimals (same number of decimal places) Order & compare any decimals with up to 3dp Round to the nearest whole number Round to 1dp Understand percentages Percentages as fractions Percentages as decimals Equivalent fractions, decimals & percentages 		<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 		<ul style="list-style-type: none"> Draw line graphs Read & interpret line graphs Read & interpret tables Two-way tables Read & interpret timetables
Summer term	Shape	Position & Direction	Decimals		Negative Numbers		Convert Units		Volume
	<ul style="list-style-type: none"> Understand & use degrees Classify angles Estimate angles Measure angles up to 180 Draw lines & angles accurately Calculate angles around a point Calculate angles on a straight line Lengths & angles in shapes Regular & irregular polygons 3D shapes 	<ul style="list-style-type: none"> Read & plot coordinates Problem solving with coordinates Translation Translation with coordinates Lines of symmetry Reflection in horizontal & vertical lines 	<ul style="list-style-type: none"> Use known facts to add & subtract decimals within 1 Complements to 1 Add & subtract decimals across 1 Add decimals with the same number of dp Subtract decimals with different numbers of dp Efficient strategies for adding & subtracting decimals Decimal sequences Multiply by 10, 100 & 1000 Divide by 10, 100 & 1000 Multiply & divide decimals – missing values 		<ul style="list-style-type: none"> Understand negative numbers Count through zero in 1s Count through zero in multiples Compare & order negative numbers Find the difference 		<ul style="list-style-type: none"> Kilograms & kilometres Millimetres & millilitres Convert units of length Convert between metric & 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	Place Value	Addition, Subtraction, Multiplication & Division		Fractions		Convert Units
	<ul style="list-style-type: none"> • Numbers to 1,000,000 • Numbers to 10,000,000 • Read & write numbers to 10,000,000 • Powers of 10 • Number line to 10,000,000 • Compare & order any integers • Place value within 1 • Place value – integers & decimals • Round any integer • Round decimals • Negative numbers 	<ul style="list-style-type: none"> • Add & subtract integers • Common factors • Common multiples • Rules of divisibility • Primes to 100 • Square & cube numbers • Multiply up to a 4-digit by a 2-digit number • Solve problems with multiplication • Short division • Division using factors • Intro to long division • Long division with remainders 	<ul style="list-style-type: none"> • Solve problems with division • Solve multi-step problems • Order of operations • Mental calculations & estimation • Reason from known facts • Add & subtract decimals • Multiply up to a 10, 100 & 1000 • Divide by 10, 100 & 1000 • Multiply decimals by integers • Divide decimals by integers • Multiply & divide decimals in context 	<ul style="list-style-type: none"> • Equivalent fractions and simplifying • Equivalent fractions on a number line • Compare & order fractions • Add & subtract simple fractions • Add & subtract any two fractions • Add mixed numbers • Subtract mixed numbers • Multi-step problems 	<ul style="list-style-type: none"> • Metric measures • Convert metric measures • Calculate with metric measures • Miles & kilometres • Imperial measures 	
Spring term	Fractions, Decimals & Percentages	Decimals	Statistics	Algebra	Area, Perim & Volume	Ratio
	<ul style="list-style-type: none"> • Decimal & fraction equivalents • Fractions as division • Understand percentages • Fractions to percentages • Equivalent fractions, decimals & percentages • Order fractions, decimals & percentages • Percentage of an amount – one step • Percentage of an amount – multi-step • Percentages – missing values 	<ul style="list-style-type: none"> • Place value within 1 • Place value – integers and decimals • Round decimals • Add and subtract decimals • 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"> • Line graphs • Dual bar charts • Read & interpret pie charts • Pie charts with percentages • Draw pie charts • The mean 	<ul style="list-style-type: none"> • 1-step function machines • 2-step function machines • Form expressions • Substitution • Formulae • Form equation • Solve 1-step equations • Solve 2-step equations • Find pairs of values • Solve problems with two unknowns 	<ul style="list-style-type: none"> • Shapes – same area • Area & perimeter • Area of a triangle – counting squares • Area of a right-angled triangle • Area of any triangle • Area of a parallelogram • Volume - counting cubes • Volume of a cuboid 	<ul style="list-style-type: none"> • Add or multiply? • Use ratio language • Intro to the ratio symbol • Ratio & fractions • Scale drawing • Use scale factors • Similar shapes • Ratio problems • Proportion problems • Recipes
Summer term	Shape		Position & Direction		Number Consolidation	Real Life Skills
	<ul style="list-style-type: none"> • Measure & classify angles • 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 3D shapes 		<ul style="list-style-type: none"> • The first quadrant • Read & plot points in four quadrants • Solve problems with coordinates • Translations • Reflections 		<ul style="list-style-type: none"> • Consolidate all aspects of number: • Place value • Calculation • Fractions, decimals & percentage • Ratio & proportion • Conversions 	<ul style="list-style-type: none"> • Application of skills to real life problem solving

Blue objectives = Ready to progress criteria