## Time Zone Maths Long Term Plan 2023-24

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn Year 5	Read, write, or 10,000, 100,00 10/100/1,000/ Partition numbe the nearest 10 100,000. Round	Place Value der and compario, 1,000,000. P. 10,000/100,000 ers to 1,000,000 , 100, 1,000. Ro d within 1,000,0 an numerals to 1	e numbers to owers of 10. I more or less. O. Round to und within OO. Negative	Subtr Mental strate whole number than four dig addition). Su numbers with four digits (c subtraction). check answer inverse opera Multi-step ad subtraction p	s with more its (column btract whole more than olumn Round to s. Use tions. ldition and roblems. ulations. Find	Multiples. Co Prime, square 1,000. Divide 1,000. Multiply 4 dig multiplication Multiply 2, 3, multiplication Divide 4 digit division). Div	Multiplication and Division Aultiples. Common multiples. Factors. Common factors. rime, square and cube numbers. Multiply by 10, 100, ,000. Divide by 10, 100, 1,000. Multiples of 10, 100, ,000. Aultiply 4 digit numbers by 1 digit numbers (short nultiplication). Multiply 2 numbers (grid method). Aultiply 2, 3, 4 digit numbers by 2 digit numbers (long nultiplication). Solve multiplication problems. Sivide 4 digit numbers by 1 digit numbers (short ivision). Divide with remainders. Efficient division. Solve problems with multiplication and division.			Fractions  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 and order fractions less than 1. Compare and order fractions greater than 1. Add and subtract fractions with the same denominator. Add fractions with different denominators within 1 and with a total of more than 1. Add fractions to a mixed number. Add two mixed numbers. Subtract fractions with different denominators. Subtract from a mixed number. Subtract from a mixed number, breaking the whole. Subtract two mixed numbers.				Assess- ment and Consoli- dation
Autumn Year 6	Place Value Read, write, order and compare numbers to 1.000.000, 10,000,000. Powers of 10. Round any integer. Negative numbers. Revise Roman numerals.  Four Operations: Addition, S Divis Add and subtract integers (column addition and subtraction. Common factors. Or Primes to 100, Square and cube numbers. Munumbers (long multiplication). Solve problems Division using factors. Long division. Long division. Solve multi-step problems. Or or control of the problems of the problems.						ion  Ind subtraction). Solve problems with Common multiples. Rules of divisibility. With Multiply 4 or more digit numbers by 2 digit is with multiplication. Short division. Vision with remainders. Solve problems  Equivalent friction are/are not in multi-step principles. The fractions of a division with remainders.			Fractions ractions and simplifying. Compare and order using /numerator. Add and subtract fractions with denominators which multiples of each other. Add and subtract mixed numbers. Solve roblems. Multiply fractions by integers. Multiply fractions by iivide fractions by integers. Mixed problem solving. Finding a an amount. Find the whole.				Assess - ment and Consoli - dation
Spring Year 5	Multiply fraction integers. Multiply fractions by integers. Finding for an amount. Whole. Using froperators. Fraproblems solving	ons by iply non-unit tegers. numbers by ng a fraction Find the ractions as ction	Fractions, Decimals and Percentages Decimals to 2 decimal places. Equivalent fractions as decimals (tenths and hundredths). Thousandths as fractions. Thousandths as decimals. Thousandths on a place value chart. Ordering and comparing decimals to 3 d.p Rounding decimals to the nearest whole number. Round to 1 d.p. Adding and subtracting decimals within 1. Complements to 1. Adding and subtracting decimals greater than 1. Adding and subtracting decimals with the same and different numbers of decimal places. Efficient calculation strategies. Multiplying and dividing decimals by 10, 100, 1,000. Decimals problem solving - missing values. Understanding percentages. Percentages as decimals and fractions. Equivalent fractions, decimals and percentages.			s).  Kilogram kilometr Milligrar millimetr Converti length. between Imperial Converti time. So problem timetable	Measurement: Converting Units Kilograms and kilometres. Milligrams and millimetres. Converting units of length. Convert between metric and Imperial units. Converting units of time. Solving problems with timetables.  Measurement: Area, Perimeter. Volume Perimeter of rectangles. Perimeter of rectangles. Area of rectangles. Area of compound shapes. Estimate area. Cubic centimetres. Compare volume. Estimate volume. Estimate tolume.			Geomet-ry  : Position and Direction Read and plot coordinates in the first quadrant. Solve coordinate problems. Translation. Translation with co-ordinates. Reflection. Assess-men t	Geomet-ry  : Propert-ie s of Shapes Understand and use degrees. Classify angles. Estimate angles. Measure angles up to 180°. Draw lines and angles accurately.			

Spring Year 6	Ratio Introduction to ratio. Use the language of ratio. The ratio symbol. Ratio and fractions. Scale drawing. Using scale factors. Similar shapes. Ratio problems. Proportion problems. Recipe problems.		Fractions, Decimals and Percentages  Place value within 1 to 3 d.p Integers and decimals. Round decimals. Add and subtract decimals. Multiply and divide decimals by 10, 100, 1,000. Multiply decimals by integers. Divide decimals by integers. Decimal problem solving.  Decimals and fraction equivalents. Fractions as division. Understand percentages. Fractions to percentages. Equivalent fractions, decimals and percentages. Ordering fractions, decimals and percentages. Finding percentages of an amount one step/multi-step problems. Finding missing values with percentages.			metric measures. Converting metric measures. Calculating with metric measures. Miles and kilometres. Imperial measures.	Measurement: Area, Perimeter, Volume Shapes - same area. Area and 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.	Geomet-ry : Position and Direction Position in the first quadrant. All four quadrants. Solve coordinate problems. Translat-ions. Reflection.  Assess-men t	Geomet-ry : Propert-ie s of Shapes Measure and classify angles. Calculate angles. Vertically opposite angles. Angles in a triangle.		
Summer Year 5	Geome Propert Shap Calculate angles point. Calculate straight line. Ca lengths and angl Revise triangles quadrilaterals. I irregular polygon Reasoning about	ies of Des around a angles on a alculate es in shapes. and Regular and ns.	Read and interpret line graphs. Solve problems using line graphs. Read and interpret tables. Two-way tables. Read and interpret timetables.			Negative Numbers  Understand negative numbers. Count through zero in 1s and multiples. Compare and order negative numbers. Find the difference. Solve problems using negative numbers.	Projects Focus on revision and consoli operations and fractions, in				
Summer Year 6	Geometry: Properties of Shapes Angles in a triangle: special cases; missing angles. Angles in a quad-rilateral. Angles in polygons. Circles. Draw shapes accurately. Nets of 3D shapes.		<u>SATs</u> <u>Revision</u>	<u>SATs</u>	Statistics Read and interpret pie charts. Pie charts with percent-ag es. Draw pie charts.	Algebra One step function machines. Two step function machines. Form expressions. Substitution. Formulae. Form equations. Solve one-step equations. Solve two-step equations. Find pairs of values. Solve problems with two unknowns.	Projects Focus on revision and consoli operations and fractions, in				