## Time Zone Maths Long Term Plan 2022-23

	Week 1	Week 2	Week 3	Week	Week 5	Week	Week	Week	Week	Week 10	Week 11	Week	Week	Week
				4		6	7	8	9			12	13	14
Autumn Year 5	Place Value  Read, write, order and compare numbers to 10,000, 100,000, 1,000,000. Powers of 10. 10/100/1,000/10,000/100,000 more or less. Partition numbers to 1,000,000. Round to the nearest 10, 100, 1,000. Round within 100,000. Round within 1,000,000. Negative numbers. Roman numerals to 1,000.			Mental stra whole numbe than four di addition). S numbers wit four digits ( subtraction) check answe operations. addition and problems. C	ers with more gits (column ubtract whole h more than column ). Round to ers. Use inverse Multi-step	Multiples. Common multiples. Factors. Common factors. Prime, square and cube numbers. M by 10, 100, 1,000. Divide by 10, 100, 1,000. Multiply 4 digit numbers by 1 digit numbers (and to lise inverse is-step raction re				Find fractions equivalent to a unit fraction. 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				<u>Assess-</u> <u>ment</u>
Autumn Year 6	Place Read, write, order numbers to 1,000 10,000,000. Pow Round any intege numbers. Roman	er and compare 0.000, vers of 10. er. Negative	Add and subt addition and Common fact cube numbers Multiply 4 or problems with Short division Solve probler	ract integers subtraction. ors. Common 1 5. more digit nut in multiplicatio in. Division usi ins with divisio tep problems.	Divis (column addition of multiples. Rules of mbers by 2 digit n n. ng factors. Long n	nd subtraction). Solve problems with denominator denominator denominator problems. Modivisibility. Primes to 100, Square and Divide fract			Fractions fractions and simplifying. Compare and order using or/numerator. Add and subtract fractions with different ors. Add and subtract mixed numbers. Solve multi-step Multiply fractions by integers. Multiply fractions by fractions. tions by integers. Mixed problem solving. Finding a fraction of Finding a fraction of an amount, finding the whole.				Assess- ment	
Spring Year 5	Frac Multiply fractior Multiply non-unit integers. Multip numbers by integ fraction of an ar fractions as open problems solving	is by integers. fractions by ly mixed gers. Finding a nount. Using rators. Fraction	Practic  Decimals to a Understandir as decimals. decimals. Ro Adding and si Complements decimals gree subtracting of different nur Multiplying ai 100, 1,000. D Decimals as f percentages.	Percentage decimal place of thousandths ordering and unding decimal ubtracting decimal ubtracting decimals with the opening of the company of	Decimals and entages nal places. usandths. Thousandths ing and comparing  Measurement: Converting Units Kilograms and kilometres. Milligrams and millimetres. Metric units.		Measurement: Area, Perimeter, Volume Measure perimeter. Calculate perimeter. Areas of rectangles. Areas of compound shapes. Areas of irregular shapes. Investigate volume. Compare volume. Estimate volume. Estimate capacity.		Geometry: Position and Direction Position in the first quadrant. Translation. Translation with coordinates. Reflection. Reflection with coordinates.	Geometry: Properties of Shapes Measuring angles in degrees. Measuring with a protractor. Drawing lines and angels accurately.				

Spring Year 6	Ratio Use the language of ratio. Ratio and fractions. The ratio symbol Calculating ratio. Using scale factors. Calculating scale factors. Ratio and proportion problems.	Fractions, Decimals and Percentages  Decimals to 3 decimal places. Multiply and divide decimals by 10, 100, 1,000. Multiply decimals by integers. Divide decimals by integers. Decimal problem solving. Decimals as fractions. Fractions to decimals. Fractions to percentages. Equivalent fractions, decimals and percentages. Ordering fractions, decimals and percentages of an amount. Finding missing values with percentages.	Converting metric measures. Calculating with metric measures. Miles and kilometres. Imperial measures.	Measurement: Area, Perimeter, Volume Area and perimeter. Area of different types of triangles. Area of parallelograms. Volume - counting cubes. Volume of a cuboid.	Geometry: Position and Direction Position in the first quadrant. All four quadrants. Reflections. Translations.	Geometry: Properties of Shapes Measure with a protractor. Angles on a straight line/around a point. Vertically opposite angles. Calculate angles. Angles in a triangle.		
Summer Year 5	Geometry: Properties of Shapes Calculating angles on a straight line. Calculating angles around a point. Calculating lengths and angles in shapes. Triangles and quadrilaterals. Regular and irregular polygons. Reasoning about 3-D shapes.	Statistics Interpreting charts: comparison, sum and difference. Read and interpret line graphs. Draw line graphs. Solve problem using line graphs. Read and interpret tables. Two=way tables. Timetables.	Projects, Consolidation and Problem Solving  Focus on revision and consolidation of learning from earlier in the year, particularly the four operations and fractions, in preparation for learning in Year 6.					
Summer Year 6	Geometry: Properties of Shapes Angles in a triangle: special cases. Angles in special quadrilaterals. Angles in regular polygons. Draw shapes accurately. Draw nets of 3-D shapes.	Read and interpret pi	Find a rule – one step. Find a rule – two steps. Forming expressions. Substitution. Formulae.	Projects, Focus on revision and constitution four operations and fractions	olidation of learning		year, particularly the	