Maths Long Term Plan 2020 – 2021   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
	Number: Place Value			Number: Addition & subtraction		Statistics		Number: Multiplication & division	Measurement: Perimeter and area			Measurement: Time
Autumn	Count in multiples of 6, 7, 9, 25 and 1000 Counting fwds and backwards In steps of power of 10 Count fwd and bwd through in positive and negative through zero	1,000 more, 1,000 less Comparing 4 digit numbers Ordering 4 digit numbers Read, write order and compare numbers up to 1 million Roman Numerals to 1000	Rounding to nearest 10, 100 and 1,000 Rounding Negative numbers in context. Solving number problems	Add and subtract numbers with up to 4 digits Add and subtract numbers mentally Formal methods to add and subtract – 4 digit and above (whole numbers).	Use rounding to check Solving multi step addition and subtraction challenges Assessment Point 1	Interpret charts Complete, read and interpret information in tables including timetables	Introducing line graphs Comparison, sum and difference Solve comparison, sum and difference problems using information presented in a line graph.	Recognise and use factor pairs and commutativity Recall tables facts up to 12x12 Identify multiples and factors Prime numbers Square and cubed numbers Assessment Point 2	Multiply 2 and 3 digit numbers by a 1 digit number Multiply and divide numbers mentally using known facts Multiply numbers up to 4 digits by one or two digits using formal written methods – including long multiplication	Measure and calculate the perimeter of a rectilinear figure (including squares) Measure perimeter Calculate perimeter Area of rectangles	Find the area of rectilinear shapes by counting squares Area of compound shapes Area of irregular shapes	Read, write and convert time between analogue and digital 12 and 24 hour clocks Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days Solve problems involving converting between units of time Termly Assessment
	Number: Multiplication & division			Number: Fractions				Number: Decimals and Percentages				
Spring	Multiply 4 digits by 1 digit Multiply 2 digits (area model)	Multiply 3 digits by 2 digits Multiply 4 digits by 2 digits	Divide 4 digits by 1 digit Divide with remainders Assessment Point 3	Count up and down in hundredths Recognise and show, using diagrams, equivalent fractions Equivalent fractions	Compare and order fractions less than 1 Compare and order fractions greater than 1 (denominators all multiples of the same number)	Add and subtract fractions with the same denominator As above but with denominators that are multiples of the same number	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams Assessment	Recognise and write decimal equivalents to ¼, ½, ¾ Read and write decimal numbers as fractions Recognise and use thousandths	Round decimals with one decimal place to the nearest whole number Round decimals with two decimal places to the nearest whole number and to one decimal place Solving problems involving numbers up to three decimal	Find the effect of dividing a 1 or 2 digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths Read, write, order and compare numbers	Solve simple measure and money problems involving fractions and decimals to 2 decimal places Recognise the % symbol and understand	Solve problems which require knowing % and decimal equivalents of ½, ¼, 1/5, 2/5 and 4/5 and those fractions with a

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Each assessment point will inform the daily fluency sessions for the next unit (Assessment points will be White Rose/Test Base sourced).
Termly assessment will be an overall test of the terms learning – White Rose.
Year leader to suggest and add in cross-curricular links to topics – i.e. Statistics through computing or science, Co-ordinates through map work, etc.

	Number: Decimals (measures and money focus)				Geometry: Properties of Shapes and angles			Geometry: Position and Direction	Measurement: Converting Units		Measurement: Volume	
				Improper fractions to mixed numbers Mixed numbers to improper fractions			Point 4	and relate them to tenths, hundredths and decimal equivalents	with up to three decimal places	places	that % relates to number of parts per hundred, and write %s as a fraction with the denominator 100, and as a decimal	denominator of a multiple of 10 or 25 Termly Assessment
Summer	Consolidation of decimals up to 3dp based on gap analysis from Spring term Solve problems (including money) involving number up to 3 decimal places	Consolidation of decimals up to 3dp based on gap analysis from Spring term Solve problems (including money) involving number up to 3 decimal places	Application of measures problems in context Assessment Point 5	Application of measures problems in context	Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes Distinguish between regular and irregular polygons based on reasoning about equal sides and angles Use the properties of rectangles to deduce related facts and find missing lengths and angles	Identify 3D shapes, including cubes and other cuboids, from 2D representations	Identify acute and obtuse angles and compare and order angles up to 2 right angles by size Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles Draw given angles and measure them in degrees Identify: angles at a point (whole turn), angles on a straight line (half a turn) and other multiples of 90 degrees. Assessment Point 6	Describe positions on a 2D grid as co-ordinates in the 1st quadrant Describe movements between positions as translations of a given unit left/right and up/down Plot specified points and draw sides to complete a given polygon Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed	Estimate, compare and calculate different measures Convert between units of metric measure (e.g km to m and vice versa) Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints	Use all 4 operations to solve problems involving measure using decimal notation, including scaling	Estimate volume (e.g. using 1cm cubed blocks to build cuboids/cubes) and capacity using water	Termly Assessment

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