Year 5 / 6   Spring Term 2022

Mathematical aspect	National Curriculum statement (End of Year) Be advised that you might need to revisit this concept later in the year.	Linked to MNP planning - Refer to year group to merge the lessons Yr 6 MNP planning are in grey. Y6 NC objectives in yellow highlight Refer to NCETM materials for subject knowledge and addition planning resources
Week 1-2 Decimals	To read and write decimal numbers as fractions To recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents To read, write, order and compare numbers with up to 3 d.p. To round decimals with two d.p. to the nearest whole number and to one d.p To solve problems using number systems including decimals	L2 (TB 5B) yr5 Reading and writing decimals/ L1 YR6 Reading and writing decimals L3 (TB 5B) YR 5 reading and writing decimals/ (differentiate questions for each yr group) L4 (TB 5B) Yr 5 Comparing decimals/ (differentiate questions for each yr 6 group) L5 (TB 5B) Yr 5 Comparing decimals/ L6 (TB 5) Yr5 (can be used to support differentiation for yr 6) Dividing by 10, 100 and 1000 L7 (TB 5B) Yr 5 Writing fractions as decimals/ L4 Yr 6 writing fractions and decimals L8 (TB 5B) Yr 5 Adding and subtracting decimals (linked to measure) differentiate questions for each yr 6 group) L9 (TB 5B) Yr 5 Adding and subtracting decimals (linked to money) differentiate questions for each yr 6 group – could use the next few lessons from yr 5 book to support) L10 (TB 5) Yr 5 Adding and subtracting decimals (linked to money) differentiate questions for each yr 6 group – could use the next few lessons from yr 5 book to support) L15(TB 5B) Yr 5 rounding decimals (differentiate questions for each yr 6 group)
Week 3 Measurement	To convert measures between different units. To know and use equivalences between imperial and metric units. To use all four operations to solve problems including measure	L1 (TB 5B) Converting units of length/ L1 Yr 6 Converting units of length L2 (TB 5B) Converting units of length/ L2 Yr 6 Converting units of length L3 and L4 – imperial and metric (cm and inches, km and miles) (differentiate questions for each yr 6 group) L5 (TB 5B) Converting units of mass/ L4 Yr 6 Converting units of mass L11 (TB 5B) Converting units of time/ L6 Yr6 Converting units of time

		To solve problems involving converting between units of time	
Weeks 4-5	Multiply and divide with decimals	To use the formal methods of multiplication for calculations involving whole numbers. To use the formal method of short multiplication for calculations involving decimals To use written methods for division recording remainders as fractions or decimals	L6 Yr 6 Multiplying decimals / <mark>differentiate questions - whole numbers for yr 5 group)</mark> L8 Yr 6 Multiplying decimals / differentiate questions - whole numbers for yr 5 group) L10 Yr 6 Dividing decimals (3 digit by 1 digit) / <mark>differentiate questions -whole numbers for yr 5 group)</mark> L11 Y6 Dividing decimals (3 digit by 1 digit) / <mark>differentiate questions -whole numbers for yr 5 group dividing 4 by 1 digit)</mark> L12 Multiplying decimals by 2 digit number / <mark>Yr 5 multiplying 2 digit by 2 digit</mark> L13 Yr 6 Dividing a decimal by 2 digit numbers/ <mark>Yr 5 – consolidate multiplication and division NC statements linked to problem solving.</mark> L14 Yr 6 Dividing a decimal by 2 digit numbers/ Yr 5 <mark>consolidate multiplication and division NC statements linked to problem solving</mark>.
Week 6	Percentages	Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal. Solve problems which require knowing percentage and decimal equivalents of 1⁄2, 1⁄4, 1⁄5, 2⁄5, 4⁄5 and those fractions with a denominator of a multiple of 10 or 25. To recognise equivalences between fractions, percentages and decimals Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison.	L1 & L2 Yr 5 Combine these lessons – Finding percentages/ L1 Yr 6 Finding a percentage of a number L3 Yr 5 Finding percentages/ L2 Yr 6 Finding a quantity L3 Yr 6 finding percentages of change/differentiate questions -whole numbers for yr 5 group)

Week 7	Ratio	To understand ratio as part to part, solving problems using a scaling system To solve problems involving similar shapes where the scale factor is known or can be found To solve problems of proportion using percentages To solve problems involving ratio and proportion (of the whole)	L1 yr 6 Comparing quantities/ differentiate questions - for yr 5 group) L3 yr 6 Comparing quantities (recipes)/ differentiate questions - for yr 5 group) L4 yr 6 comparing quantities (scaling) differentiate questions for yr 5 group) L7 Yr 6 Solving problems/ differentiate questions - for yr 5 group) L8 Yr solving problem/ differentiate questions for yr 5 group)
Week 8-9	Geometry: circles and angles	To compare, order and recognise angles To have the skills to use a protractor to accurately measure and draw angles. To compare and classify geometric shapes To illustrate and name parts of circles.	L1 Yr 5 Knowing types of angles / differentiate questions - for yr 6 group – order and compare) L2 Y 5 Measuring angles/ differentiate questions - for yr 6 group L4 Yr 5 Investigating angles on a line /differentiate questions - for yr 6 group L5 Yr 5 Angles around a point/ L1 Yr6 investigating vertically opposite angles L9 yr 5 Investigating angles in squares and rectangles/ L4 yr6 Investigating angles in quadrilaterals L10 Solving problems involving angles in rectangles/ L3 yr6 investigating angles in triangles L6 & L7 Yr 5 drawing angles (combine these lessons)/ L9 yr 6drawing triangles L6 Yr 6 Naming parts of a circle (could consolidate angles learning for yr 5)
Week 10	Area and perimeter	Recognise that shapes with the same areas can have different perimeters and vice versa. Recognise when it is possible to use formulae for area and volume of shapes. Calculate the area of parallelograms and triangles.	L1 Yr 5 finding the permitter / L1 yr Finding the perimeter of rectangles L2 Yr 5 Finding the perimeter (composite rectilinear shapes / differentiate questions - for yr 6 group L5 & L7 Yr 5 combined – build understanding of area/ differentiate questions - for yr 6 group L10 Yr 5 Measuring the area (composite rectangles and missing lengths/ differentiate questions - for yr 6

				<mark>group</mark>
				L11 Yr 5 Estimating area <mark>differentiate questions - for yr 6 group</mark>
				L2 yr 6 Finding areas of parallelograms/ Yr 5 consolidate learning of measuring the area (composite rectangles and missing lengths
				L3 yr 6 finding areas of triangles/ Yr 5 consolidate learning of measuring the area (composite rectangles and missing lengths
Week 11		Position and movement (Chapter 10 yr 5 and chapter 13 y2 6)	To use coordinates to describe positions of a 2d shape on a coordinate grid. To translate simple shapes	L14 Yr 5 **(Chapter 11)** |Telling the temperature / L1 Y6 **chapter 13** Showing negative numbers L1 Yr 5 Naming and plotting plots/ L2 Yr 6 Describing position L4 yr 6 Drawing polygons on a coordinate grid differentiate questions - for yr 5 group L2 Yr 5 Describing translations/ L5 Yr 6 Describing translations L3 yr 5 Describing movement / L7 yr 6 describing movement L 5 Yr 5 Successive reflection / L6 yr describing reflections
Week 12		Algebra: simple formulae	To express missing number problems algebraically. To use simple formulae expressed in words. To find pairs of numbers that satisfy number sentences involving two unknowns.	L1 &L2 combined Describing patterns L5 Writing algebraic expressions L7 Writing and evaluating algebraic expression L8 Writing formula L9 Using formula
<mark>U & A</mark>	<mark>Week 1</mark>	<mark>Geometry: 2D and 3D shapes</mark>	<mark>To understand the properties of 2D shapes</mark> <mark>To recognise, describe and build simple 3-D shapes</mark>	

U&A	Week 12	Statistics: Line graphs and pie charts	To interpret and compare results shown in line graphs and/or pie charts.	