Year 5/ 6 Autumn Term

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	Place value and rounding Weeks 1-2	To read, write, order and compare numbers and determine the value of each digit To round whole number to a required degree of accuracy To add and subtract mentally in a variety of contexts (including money and measures) To solve multi step problems.	L1 yr5 reading and writing numbers to 100,000 / L1 Y6 reading and writing numbers to 10 million. L2 yr5 reading and writing numbers to 100,000 / L2 Y6 reading and writing numbers to 10 million. L3 yr5 reading and writing numbers to 100,000 / L3 Y6 reading and writing numbers to 10 million. L4 yr 5 comparing numbers to 1,000,000 / L4 yr 6 Comparing numbers to 10 million L5 yr 5 comparing numbers to 1,000,000 / L5 yr 6 Comparing and ordering numbers to 10 million L8 yr 5 making number patterns / L9 yr 5 Making number patterns (to support yr 6 knowledge) L10 yr 5 rounding numbers/ L6 yr 6 rounding numbers L11 yr 5 rounding numbers/ L7 yr 6 rounding numbers L12 yr 5 rounding numbers/ L7 yr 6 rounding numbers
Week 3	Addition & Subtraction Week 3	To add and subtract whole numbers with more than 4 digits using formal columnar addition and subtraction To add and subtract (calculate) mentally in a variety of contexts (including money and measures) To use knowledge of the order of operations to carry out calculations. To use rounding and the inverse to estimate and check answers to calculations	L3 yr 5 Adding within 1, 000,000 (differentiate questions for each yr group) L4 yr 5 Adding and subtracting within 1,000,000 (differentiate questions for each yr group) L5 yr5 Adding within 1, 000,000 (differentiate questions for each yr group) L6 yr5 subtracting within 1, 000,000 ((differentiate questions for each yr group) L7 yr 5 adding and subtracting within 1,000,000 (differentiate questions for each yr group)

	Multiplication and division Weeks 4 -6	To recall multiplication and division facts quickly. To multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 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 explore factors and multiples. To know what a prime number is and how to identify them. To multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 To solve division calculations using formal methods including those that give a remainder	L2 yr 5 Finding factors/ L3 yr 5 finding common factors L4 yr 5 Finding prime numbers/ L5 yr 5 Finding prime numbers L7 yr5 multiplying by 10, 100 and 1000 (differentiate questions for each yr group). L10 yr 5 multiplying 4 digit numbers (differentiate questions for each yr group) L11 yr 5 Multiplying 4 digit numbers (differentiate questions for each yr group) L12 yr 5 Multiplying a 2 digit number by a 2 digit number (differentiate questions for each yr group) L13 yr5 Multiplying a 2 digit number by a 2 digit number (differentiate questions for each yr group) L14 yr 5 multiplying a 3 digit no. by a 2 digit number / L4 yr 6 multiple 4 digit by a 2 digit no. L15 yr 5 multiplying a 3 digit no. by a 2 digit number / L5 yr6 multiple 4 digit by a 2 digit no. L 16 yr 5 Dividing by 10, 100 and 1000 (differentiate questions for each yr group) L17 yr 5 dividing 3 digit and 4 digit numbers / L9 yr 6 dividing by 2 digit no L18 yr 5 dividing 4 digit numbers/ L10 yr 6 Dividing by 2 digit numbers L19 yr 5 diving with remainders / L12 yr 6 dividing by 2 digit with remainder L19 yr 5 diving with remainders / L13 yr 6 dividing by 2 digit with remainder

Week 7	All four operations: Facts, mental methods, and written methods	To solve multi step problems. To use knowledge of the order of operations to carry out calculations. To use brackets in calculations To solve problems involving multiplication and division .	Chapter 4 yr 5 / Chapter 2 yr 6 L1 yr 5 Solving word problems (differentiate questions for each yr group) L2 yr 5 Solving word problems / L14 yr 6 solving word problems. L3 yr 5 solving word problems (differentiate questions for each yr group) L1 yr 6 Using mixed numbers (differentiate questions for each yr group) (chapter 2) L2 yr 6 Using mixed numbers (differentiate questions for each yr group) (chapter 2
Week 8- 12	Fractions: compare and order	To recognize mixed numbers and improper fractions To recall and use equivalences between simple fractions To compare and order fractions To add and subtract fractions To multiply proper fractions and mixed numbers To read and write decimal numbers as fractions To recognise equivalences between fractions, percentages and decimals To use common factors to simplify fractions To understand fractions as operators To solve problems which require knowing percentage and decimal equivalents	L1 yr 5 diving to make fractions. (differentiate questions for each yr group) L2 yr 5 writing improper fractions and mixed numbers (differentiate questions for each yr group) L3 yr 5 equivalent fractions / L1 yr 6 simplifying fractions L3 yr 5 equivalent fractions / L2 yr 6 simplifying fractions L4 yr 5 comparing and order fractions / L3 yr 6 comparing and ordering fractions. L5 yr 5 comparing and order fractions / L4 yr 6 comparing and ordering fractions. L6 yr 5 comparing and order fractions / L5 yr 6 comparing and ordering fractions. L7 yr 5 Making number pairs (differentiate questions for each yr group) L8 yr 5 Adding fractions / L6 yr 6 adding and subtracting fractions L9 yr 5 Adding fractions / L7 yr 6 adding and subtracting fractions L10 yr 5 Adding fractions where the sum is greater than 1 (differentiate questions for each yr group or) L11 yr 5 Adding fractions which create improper and mixed/ L9 yr6 add and subtract fraction which create improper fractions and mixed numbers. L12 yr 5 subtracting fractions / L 8 yr 6 adding and subtracting fractions. L13 yr 5 subtracting fractions / L10 yr adding and subtracting fractions.

				L15 yr 5 multiplying fractions by whole numbers/ L11 yr 6 multiplying fractions L16 yr 5 multiplying fractions by whole numbers/ L12 yr 6 multiplying fractions L17 yr 5 multiplying mixed number/ L13 multiplying fractions L18 yr 5 multiplying mixed number by whole number. (differentiate questions for each yr group) YEAR 5 TO CONSOLIDARTE ADD AND SUBTRACT FRACTIONS, AND COMPARE AND ORDER. YR6: dividing fraction L14 dividing fractions by whole numbers L15 Dividing fractions by whole numbers L16 dividing fractions by whole numbers
U & A	Week 4	Geometry: circles and angles	To illustrate and name parts of circles. 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	
U & A	Week 5	Measurement: length, perimeter and area	To convert measures between different units To measure and calculate perimeter accurately. To measure and calculate area accurately.	

U & A	Week 6	Multiples, factors and prime numbers	. To explore factors and multiples To know what a prime number is and how to identify them.	
U & A	Week 7	Fractions and decimals: comparison, order, equivalence	To compare and order fractions To recall and use equivalences between simple fractions To recognise mixed numbers and improper fractions	
U & A	Week 8	Fractions: addition and subtraction	To add and subtract fractions	
U & A	Week 9	Multiplication and division; Remainders	To use written methods for division recording remainders as fractions or decimals To use brackets in calculations To solve problems involving multiplication and division To use sills of estimation and rounding to check answers	
U & A	Week 10	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.	

U & A	Week 11	Geometry: 2D and 3D shapes	To understand the properties of 2D shapes To recognise, describe and build simple 3-D shapes	
U & A	Week 12	Statistics: Line graphs and pie charts	To interpret and compare results shown in line graphs and/or pie charts.	