

Medium term planning – New Curriculum 2014

Year 4/5

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 5 MNP planning are in grey. Y5 NC objectives in yellow highlight Refer to NCETM materials for subject knowledge and addition planning resources
Week 1-3	Place value , representations of quantity and rounding	<p>To count forwards and backwards in and varying steps</p> <p>To count in multiples</p> <p>To read, write, order and compare numbers.</p> <p>To recognise the value of each digit</p> <p>To recognise negative numbers</p> <p>To identify, represent and estimate numbers and decimals using different representations</p> <p>To round numbers</p> <p>To compare and order decimals</p>	<p>Chapter 1</p> <p>L1 yr4 – Counting in hundreds and twenty-fives</p> <p>L3 y4 Counting in Thousands, hundreds, tens and ones/</p> <p>L1 yr5 Reading and writing numbers to 100,000</p> <p>L4 yr 4 Using place value / L2 yr 5 reading and writing numbers to 1,000,000</p> <p>L5 yr 5 Using place value / L3 yr5 reading and writing numbers to 1,000,00</p> <p>L6 yr 4 Comparing and ordering numbers / L4 yr 5 comparing numbers to 1,000,000</p> <p>L6 yr 4 comparing and ordering numbers / L5 yr 5 – comparing numbers to 1,000,000</p> <p>L7 yt 4 comparing and ordering numbers/ L6 yr 6 comparing and ordering numbers</p> <p>L8 yr 4 making number patterns / L8 yr5 making number patterns.</p> <p>L9 yr 4 making number patterns/ L9 yr 5 making number patterns</p> <p>L11 yr 4 Rounding numbers / L10 yr 5 rounding numbers</p> <p>L12 yr 4 Rounding number / L11 yr 5 rounding numbers</p> <p>L13 yr 4 Rounding numbers to estimate / L12 rounding numbers</p> <p>L14 yr 4 rounding numbers to estimate / L12 rounding numbers.</p>
Week 4-6	Addition and subtraction	<p>To add and subtract numbers mentally.</p> <p>To add and subtract numbers using columnar methods</p> <p>To estimate the answer to a calculation and use inverse operations to check answers</p> <p>To solve addition and subtraction problems</p>	<p>L1 yr 4 Finding sums. Yr 5 To add and subtract numbers with more than 4 digits, (use yr 4 MNP)L2</p> <p>L2 yr 4 Adding without renaming / Yr 5 To add and subtract numbers with more than 4 digits, (use yr 4 MNP)</p> <p>L3 yr 4 Adding with renaming in the ones column/ Yr 5 To add and subtract numbers with more than 4 digits, (use yr 4 MNP)</p> <p>L4 yr 4 adding with renaming tens and ones column/ Yr 5 To add and subtract numbers with more than 4 digits, (use yr 4 MNP)</p> <p>L5 yr 4 adding with renaming in the hundreds, tens and ones column/ Yr 5 To add and subtract</p>

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			<p>numbers with more than 4 digits, (use yr 4 MNP)</p> <p>L5 yr 4 adding with renaming in the hundreds, tens and ones column/ Yr 5 remaining in the thousands, tens and one column.</p> <p>L6 yr 4 Adding using mental strategies/ L1 yr 5 Counting on to add</p> <p>L7 yr 4 Adding using mental strategies / L3 yr 5 Adding within 1,000,000</p> <p>L8 yr 4 finding difference / Yr 5 finding difference with more than 5 numbers.</p> <p>L9 yr 4 subtracting without renaming. Yr 5 To add and subtract numbers with more than 4 digits, (use yr 4 MNP)</p> <p>L10 Subtracting with renaming ten and ones column / Yr 5 To add and subtract numbers with more than 4 digits, (use yr 4 MNP)</p> <p>L11 subtracting with renaming hundreds, tens and ones column / Yr 5 To add and subtract numbers with more than 4 digits, (use yr 4 MNP)</p> <p>L12 subtracting with renaming hundreds, tens and ones column/ Yr 5 To add and subtract numbers with more than 4 digits, (use yr 4 MNP)</p> <p>L13 subtracting with renaming thousands, hundreds, tens and one/ Yr 5 To add and subtract numbers with more than 4 digits, (use yr 4 MNP)</p> <p>L14 Subtracting using mental strategies/ L6 Subtracting within 1 000 000</p>
<p>Week 7-11</p>	<p>Using multiplication and division facts</p>	<p>To recall and use multiplication and division facts To write and calculate mathematical statements for multiplication and division, using facts and place value</p> <p>To recognise and use factors and commutativity in mental calculations</p> <p>To use a formal written method for multiplication and division.</p> <p>To understand the effect of dividing a one- or two- digit number by 10 and 100</p> <p>To solve problems, including missing number problems, involving multiplication and division</p>	<p>Chapter 3</p> <p>L1 yr4 Multiplying by 6 / L1 yr 5 finding multiples.</p> <p>L3 yr 4 multiplying by 9 / L2 yr finding factors.</p> <p>L4 yr 4 multiplying by 9 / L3 yr 5 finding common factors.</p> <p>Chapter 4</p> <p>L1 yr4 Multiplying by 0 and 1/ Yr 5 up to 4 digits</p>

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To multiply numbers by a single-digit number using short multiplication

To divide numbers that leave a remainder
To divide HTU by U where the remainder is recorded

To understand that cube numbers are products from multiplying the same three numbers Eg $10 \times 10 \times 10$

To understand prime numbers

To use brackets in simple calculations and know to calculate brackets first

To use distributive and associative laws

To use rounding to check answers to calculations

L2 yr 4 Diving by 1/ Yr 5 up to 4 digits

L4 yr 4 Multiplying Three Numbers/ L6 yr 5 cube numbers

L5 yr 4 Multiplying multiples of 10/ Yr 5 to use $\frac{3}{4}$ digit numbers

L7 yr 5 multiplying by 10, 100 and 1000/ Yr 4 by 10 and 100

L6 yr 4 multiplying 2 digit number without renaming / Yr 5 3 digit numbers no renaming.

L7 yr 4 multiplying by 2 digit numbers with renaming. Yr 5 3 digit numbers with renaming.

L8 yr 5 multiplying multiples of 100/ L7 yr 5 multiplying by 10, 100 and 1000

L9 yr 4 multiplying by 3 digit numbers without renaming/ L8 yr 5 multiplying 2 and 3 digit nos.

L10 yr 4 multiplying by 3 digit numbers with renaming/ L9 yr 5 multiplying by 4 digit nos.

L11 yr 4 multiplying by 3 digit numbers with renaming/ L10 yr 5 multiplying by 4 digit nos.

L16 yr 5 dividing by 10, 100 and 1000 / Yr 4 divide by 10 and 100

L12 yr4 dividing 2 digit numbers / Yr 5 dividing 3 digit numbers.

L13 yr 4 dividing 3 digit numbers / yr5 diving 4 digit nos.

L14 yr 4 dividing 2 digit numbers with a remainder/ yr5 dividing 3 digit nos with a remainder.

L15 yr 4 diving 3-digit numbers with renaming/ yr 5 dividing 4 digit nos with renaming.

L16 yr 4 diving 3 digit numbers with remainder/ yr 5 dividing 4 digit nos with remainders

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Week 11	Geometry: Angles	<p>To identify right angles, acute and obtuse angles</p> <p>To recognise and complete a simple symmetrical figure and measure/draw angles accurately</p> <p>To know angles are measured in degrees: to compare and order angles</p> <p>To understand the properties polygons To understand the properties of 3D shapes To recognise, compare and classify geometric shapes</p>	<p>Chapter 12 (yr4) L1 yr 4 knowing types of angles / L1 yr 5 knowing types of angles. L2 yr 4 comparing angles / L2 yr 5 measuring angles L3 yr 4 classifying triangles L4 yr 4 classifying quadrilaterals L5 yr 4 identifying symmetrical figures L10 yr 4 sorting shapes based on their priorities.</p>
Week 12	Measurement: length, perimeter and area	<p>To measure, compare and convert between units of measure</p> <p>To understand and use approximate equivalences between metric units and common imperial units</p> <p>To measure and calculate perimeters To find the area of rectilinear shapes</p>	<p>Yr 4 Chapter 10/ L8 yr measuring length/ L1 finding the perimeter (Chapter 12) L9 yr 4 convert units of length/ L1yr 5 convert units of length (chapter 11) L13 yr 4 convert units of length/ L2 yr 5 convert units of length (chapter 11) L11 yr 4 Measuring perimeter in different units/ L2 yr 5 Finding thr perimeter (chapter 12) L11 yr 4 Measuring perimeter in different units/ L3 yr 5 finding thr perimeter (chapter 12)</p>
U & A	Fractions and decimals: tenths and hundredths	<p>To identify, represent and estimate numbers and decimals using different representations</p> <p>To round numbers</p> <p>To compare and order decimals</p>	

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U & A	W e e k 1 0	Fractions: Calculation	To recognise and show equivalents To add and subtract fractions	
U & A	W e e k 1 1	Geometry: Polygons	To understand the properties polygons To recognise and complete a simple symmetrical figure and measure/draw angles accurately	
U & A	W e e k 1 2	Statistics:	To interpret and present data	