| Wk | Maths Aspect | Y3 Non-Negotiable | Y4 Non- Negotiable | Resources | Y3 NC obj | Y4 NC obj |
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| 1 -2 | Multiplication and division – mental methods  PATTERNS and GENRERALSING | Knows the 2, 3, 4- and 8-times tables and the doubling patterns, odds and evens.  Knows how to multiply using partitioning.  Knows how to find corresponding division facts | Use their knowledge of times tables to work out calculations mentally using, up to, 3 digit numbers. | Y3 x/ 2.7 TP 2,4,5  Y3 x/ 2.8 TP 3,5,6  Y4 x/ 2.10 TP All  PS: Rules of divisibility  HOMELEARNING  White Rose | * Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.   Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental methods. | * Use place value, known and derived facts to multiply and divide mentally, including multiplying by 0 and 1; dividing by 1; multiplying together three numbers * Recognise and use factor pairs and commutativity in mental calculations |
| 3-4 | Multiplication and division: multiplying using a method and dividing with remainders | Knows how to partition numbers when multiplying in a grid/short method.  Knows how divide and record remainders.  Knows how to recognise multiples of a divisor. | Knows and applies table facts for recall of multiplication and division facts when calculating. | WR Autumn Y34 x/ theme 3, 5  WR Spring Y34 x/ theme 1  HOME LEARNING  Adapted White Rose videos | ● To solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which *n* objects are connected to *m* objects. | To multiply two-digit and three-digit numbers by a one-digit number using formal written layout.  ● To solve problems involving multiplying and adding, including using the distributive law and harder multiplication problems such as which *n* objects are connected to *m objects.* |
| 5 -7 | Fractions  FINDING ALL POSSIBILITIES | Knows how to add and subtract within the same denominator. | Knows how to add and subtract fractions with the same denominator.  Knows how to write decimal equivalents of any number of tenths or hundredths. | Y3 Fractions 3.1 – 3.4 All TP -also meets Y4 obj here  PS:  HOMELEARNING  Oak Academy | * count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 * recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators * recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators * recognise and show, using diagrams, equivalent fractions with small denominators * add and subtract fractions with the same denominator within one whole [for example,  +  = ] * compare and order unit fractions, and fractions with the same denominators * solve problems that involve all of the above. | * recognise and show, using diagrams, families of common equivalent fractions * count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. * solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number * add and subtract fractions with the same denominator * recognise and write decimal equivalents of any number of tenths or hundredths * recognise and write decimal equivalents to , , * find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths * round decimals with one decimal place to the nearest whole number * compare numbers with the same number of decimal places up to two decimal places |
| 8 | Shape – angles and lines  PATTERNS AND GENREALSIING | Identify right angles and angles greater than or less than. Use right angles to describe turns.  Know what horizontal and vertical means and whether these are parallel or perpendicular. | Order angles and name them based on size.  Know what symmetry is and where it is shown in 2D shapes. Draw their own shapes with lines of symmetry. | TR use pms to take groups and cover shape names and properties CATCHUP  HOMELEARNING -shape catchup BBC  ANGLES  Oak Academy  WR  PS: | * Recognise angles as a property of a shape or a description of a turn. * Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater or less than right angle. * Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. | * Identify acute and obtuse anfles and compare and order angles up to two right angles by size. * Identify lines of symmetry in 2D shapes presented in different orientations. * Complete a simple symmetric figure with respect to a specific line of symmetry. |
| 9 | Length and perimeter  (Y4 area)  PATTERNS and GENRERALSING | Understand units of measure. Accurately measure, compare and calculate using lengths to work out the perimeter. | Calculate the perimeter and area of squares as well as rectilinear shapes with different units. | Y4 x/ 2.16 TP All  WR Y34 Length Themes 1-4  HOMELEARNING OAK ACADEMY  Brought forward to break up calculation work at home  PS – NRICH ‘Fitted’ | * Measure, compare, add and subtract lengths (m/cm/mm). * Measure the perimeter of simple 2D shapes. | * Convert between different units of measure [for example, kilometre to metre] * Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres. * Find the area of rectilinear shapes by counting squares. |
| 10 | Measures – money | Give change accurately using addition and subtraction. | Estimate, compare and calculate using money and the 4 operations. | WR  HOMELEARNING  White Rose | * Add and subtract amounts of money to give change, using both £ and p in practical contexts. | * Estimate, compare and calculate different measures, including money in pounds and pence. |
| 11 | Measures – mass and capacity | Compare, add and subtract kg/g and l/ml. | Estimate, compare and calculate using measures and the 4 operations. | WR  HOMELEARNING  Own poperpoints | * Compare, add and subtract mass (kg/g); volume/capacity (l/ml). | solve simple measure and money problems involving fractions and decimals to two decimal places. |
| 12 | Statistics | Find, interpret and present data in a range of bar charts, pictograms and tables. | Find, interpret and present data in a range of graphs and tables | WR  HOMELEARNING  Own poperpoints | * Interpret and present data using bar charts, pictograms and tables. * Solve one step and two step questions using information presented in scaled bar charts and pictograms and tables. | * Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. * Solve comparison, sum and difference problem using information presented in bar charts, pictograms, tables and other graphs. |