|  | Week 1 - Week 3 | Week 4 - Week 8 | Week 9 - Week 12 |  | Week 13 - Week 15 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Place Value | Addition \& Subtraction | Multiplication \& Division A |  | Consolidation |
|  | Y2 PRE-ASSESSMENT and ADDRESS GAPS <br> Step 1 Represent numbers to 100 <br> Step 2 Partition numbers to 100 <br> Step 3 Number line to 100 <br> Step 4 Hundreds <br> Step 5 Represent numbers to 1,000 <br> Step 6 Partition numbers to 1,000 <br> Step 7 Flexible partitioning of numbers to 1,000 <br> Step 8 Hundreds, tens and ones <br> Step 9 Find 1,10 or 100 more or less <br> Step 10 Number line to 1,000 <br> Step 11 Estimate on a number line to 1,000 <br> Step 12 Compare numbers to 1,000 <br> Step 13 Order numbers to 1,000 <br> Step 14 Count in 50s <br> Y3 POST ASSESSMENT and ADDRESS GAPS | Y2 PRE-ASSESSMENT and ADDRESS GAPS <br> Step 1 Apply number bonds within 10 <br> Step 2 Add and subtract 1 s <br> Step 3 Add and subtract 10s <br> Step 4 Add and subtract 100s <br> Step 5 Spot the pattern <br> Step 6 Add 1s across a 10 <br> Step 7 Add 10 s across a 100 Step 8 Subtract 1s across a 10 <br> Step 9 Subtract 10 s across a 100 <br> Step 10 Make connections <br> Step 11 Add two numbers (no exchange) <br> Step 12 Subtract two numbers (no exchange) <br> Step 13 Add two numbers (across a 10) <br> Step 14 Add two numbers (across a 100) <br> Step 15 Subtract two numbers (across a 10) <br> Step 16 Subtract two numbers (across a 100 <br> Step 17 Add 2-digit and 3-digit numbers <br> Step 18 Subtract a 2-digit number from a 3-digit number <br> Step 19 Complements to 100 <br> Step 20 Estimate answers <br> Step 21 Inverse operations <br> Step 22 Make decisions <br> Y3 POST ASSESSMENT and ADDRESS GAPS | Y2 PRE-ASSESSMENT and ADDRESS GAPS <br> Step 1 Multiplication - equal groups <br> Step 2 Use arrays <br> Step 3 Multiples of 2 <br> Step 4 Multiples of 5 and 10 <br> Step 5 Sharing and grouping <br> Step 6 Multiply by 3 <br> Step 7 Divide by 3 <br> Step 8 The 3 times-table <br> Step 9 Multiply by 4 <br> Step 10 Divide by 4 <br> Step 11 The 4 times-table <br> Step 12 Multiply by 8 <br> Step 13 Divide by 8 <br> Step 14 The 8 times-table <br> Step 15 The 2, 4 and 8 times-tables <br> Y3 POST ASSESSMENT and ADDRESS GAPS |  | Y3 Autumn Term Assessment |
|  | Identify, represent and estimate numbers using different representations <br> Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones) <br> Count from zero in multiples of 4, 8,50 and 100; find 10 or 100 more or less than a given number <br> Count from zero in multiples of $4,8,50$ and 100 <br> Read and write numbers up to 1,000 in numerals and word Compare and order numbers up to $1,000 \mathrm{~s}$ | Add and subtract numbers mentally, including: <br> - a 3-digit number and ones <br> - a 3-digit number and tens <br> - a 3-digit number and hundreds <br> Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction <br> Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction Estimate the answer to a calculation and use inverse operations to check answers | Show that multiplication of two numbers can be done and division on one number by another cannot (Y2) Count in steps of 2,3 and 5 from 0 , and in 10 s from any backward (Y2) <br> Recall and use multiplication and division facts for the 2,5 tables, including recognising odd and even numbers (Y2) Recall and use multiplication and division facts for the 3 , tables <br> Write and calculate mathematical statements for multip the multiplication tables that they know, including for 2 numbers, using mental and progressing to formal written | der (commutative) <br> , forward and <br> 10 multiplication <br> 8 multiplication <br> and division using <br> mbers times 1-digit <br> ds |  |
|  | Engage with mathematical activities and problems, making links and moving between different representations (concrete, pictorial, abstract). <br> Independently choose to scaffold thinking using concrete, pictorial or abstract representations, if required. <br> Independently choose to represent thinking using concrete, pictorial or abstract representations, as appropriate. <br> Independently find an efficient way to solve a range of problems. <br> Independently work systematically. <br> Independently find possibilities using patterns spotted to support. <br> Independently check and improve work (e.g. look for other possibilities, repeats, missing answers, errors and ways to improve). <br> Pattern spot and predict what will come next in a pattern/sequence (numbers, shape or spatial). <br> Independently investigate conjectures and provide examples and counter-examples. <br> When they have solved a problem, pose a similar problem for a peer. |  | For all mathematical concepts, ideas and techniques: <br> Represent it in a variety of ways (e.g. using concrete materials, pictures and symbols - the CPA approach). <br> Make up his or her own examples (and non-examples) of it. <br> See connections between it and other facts or ideas. <br> Recognise it in new situations and contexts. <br> Make use of it in various ways, including in new situations. | Solve problems of greater complexity (i.e. where the approach is not immediately obvious), demonstrating creativity and imagination. Independently explore and investigate mathematical contexts and structures. |  |
| - | Provide a convinced argument. <br> Reflect on others' convinced explanations and use this to improve their work. Edit and improve their own and a peer's convinced explanation. <br> Investigate 'what if?' questions. <br> Create 'what if?' questions. |  | Describe it in his or her own words. Explain it to someone else. | Communicate results clearly and systematically explain and generalise the mathematics. |  |

Year 3 Spring Term White Rose Planning

|  | Week 1 - Week 3 | Week 4 - Week 5 |  | Week 6 - Week 8 | Week 9 - Week 11 |  | Week 11 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Multiplication \& Division B | Measurement (length \& perimeter) |  | Fractions | Measurement (mass \& capacity) |  | Consolidation |
|  | Y2 PRE-ASSESSMENT and ADDRESS GAPS <br> Step 1 Multiples of 10 <br> Step 2 Related calculations <br> Step 3 Reasoning about multiplication <br> Step 4 Multiply a 2-digit number by a 1-digit number - no exchange <br> Step 5 Multiply a 2-digit number by a 1-digit number - with exchange <br> Step 6 Link multiplication and division <br> Step 7 Divide a 2-digit number by a 1-digit number - no exchange <br> Step 8 Divide a 2-digit number by a 1-digit number - flexible <br> partitioning <br> Step 9 Divide a 2-digit number by a 1-digit number - with remainders <br> Step 10 Scaling <br> Step 11 How many ways? <br> Y3 POST ASSESSMENT and ADDRESS GAPS | Y2 PRE-ASSESSMENT and ADDRESS GAPS <br> Step 1 Measure in metres and centimetres Step 2 Measure in millimetres <br> Step 3 Measure in centimetres and millimetres <br> Step 4 Metres, centimetres and millimetres <br> Step 5 Equivalent lengths (metres and centimetres) <br> Step 6 Equivalent lengths (centimetres and millimetres) <br> Step 7 Compare lengths <br> Step 8 Add lengths <br> Step 9 Subtract lengths <br> Step 10 What is perimeter? <br> Step 11 Measure perimeter <br> Step 12 Calculate perimeter <br> Y3 POST ASSESSMENT and ADDRESS GAPS | Y2 PRE-A <br> Step 1 <br> fractions <br> Step 2 C <br> Step 3 <br> fractions <br> Step 4 <br> Step 5 C <br> Step 6 Fr <br> Step 7 Fr <br> Step 8 Co <br> Step 9 Eq <br> Step 10 <br> Y3 POST | SESSMENT and ADDRESS GAPS erstand the denominators of unit <br> pare and order unit fractions erstand the numerators of non-unit <br> erstand the whole pare and order non-unit fractions tions and scales tions on a number line in in fractions on a number line valent fractions on a number line uivalent fractions as bar models SESSMENT and ADDRESS GAPS | Y2 PRE-ASSESSMENT <br> Step 1 Use scales <br> Step 2 Measure mas <br> Step 3 Measure mas <br> Step 4 Equivalent ma <br> Step 5 Compare mas <br> Step 6 Add and subtr <br> Step 7 Measure capa <br> Step 8 Measure capa <br> millilitres <br> Step 9 Equivalent cap and millilitres) <br> Step 10 Compare cap <br> Step 11 Add and sub <br> Y3 POST ASSESSMEN | ms <br> grams and grams lograms and grams) <br> S <br> volume in millilitres volume in litres and <br> and volumes (litres <br> and volume pacity and volume ADDRESS GAPS | Y3 Spring Term Assessment |
|  | Recall and use multiplication facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers ( Y 2 ) Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which $n$ objects are connected to m objects | Measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); volume/capacity ( $1 / \mathrm{ml}$ ) <br> Measure the perimeter of simple 2-D shapes | Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators Compare and order unit fractions, and fractions with the same denominators <br> Measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); volume/capacity ( $1 / \mathrm{ml}$ ) Recognise and show, using diagrams, equivalent fractions with small denominators |  | Measure, compare, add and subtract: lengths $(\mathrm{m} / \mathrm{cm} / \mathrm{mm})$; mass ( $\mathrm{kg} / \mathrm{g}$ ); volume/capacity ( $1 / \mathrm{ml}$ ) |  |  |
|  | Engage with mathematical activities and problems, making links and moving between different representations (concrete, pictorial, abstract). <br> Independently choose to scaffold thinking using concrete, pictorial or abstract representations, if required. <br> Independently choose to represent thinking using concrete, pictorial or abstract representations, as appropriate. <br> Independently find an efficient way to solve a range of problems. <br> Independently work systematically. <br> Independently find possibilities using patterns spotted to support. <br> Independently check and improve work (e.g. look for other possibilities, repeats, missing answers, errors and ways to improve). <br> Pattern spot and predict what will come next in a pattern/sequence (numbers, shape or spatial). <br> Independently investigate conjectures and provide examples and counter-examples. <br> When they have solved a problem, pose a similar problem for a peer. |  |  | EXS |  | GDS |  |
| -00 |  |  |  | For all mathematical concepts, ideas and techniques: Represent it in a variety of ways (e.g. using concrete materials, pictures and symbols - the CPA approach). <br> Make up his or her own examples (and non-examples) of it. See connections between it and other facts or ideas. Recognise it in new situations and contexts. Make use of it in various ways, including in new situations. |  | Solve problems of greater complexity (i.e. where the approach is not immediately obvious), demonstrating creativity and imagination. Independently explore and investigate mathematical contexts and structures. |  |
| -00 | Provide a convinced argument. <br> Reflect on others' convinced explanations and use this to improve their work. Edit and improve their own and a peer's convinced explanation. <br> Investigate 'what if?' questions. <br> Create 'what if?' questions. |  |  | Describe it in his or her own words. Explain it to someone else. |  | Communicate results clearly and systematically explain and generalise the mathematics. |  |


|  | Week 1 - Week 2 | Week 3 - Week 4 | Week 5 - Week 7 | Week 8 - Week 9 | Week | - Week 11 | Week 12 - Week 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fractions | Measurement (money) | Measurement (time) | Geometry (shape) |  | stics | Consolidation |
|  | Y2 PRE-ASSESSMENT and ADDRESS GAPS <br> Step 1 Add fractions <br> Step 2 Subtract fractions <br> Step 3 Partition the whole <br> Step 4 Unit fractions of a set of objects Step 5 Non-unit fractions of a set of objects Step 6 Reasoning with fractions of an amount $\qquad$ | Y2 PRE-ASSESSMENT and ADDRESS GAPS <br> Step 1 Pounds and pence <br> Step 2 Convert pounds and pence <br> Step 3 Add money <br> Step 4 Subtract money <br> Step 5 Find change <br> Y3 POST ASSESSMENT and ADDRESS GAPS | Y2 PRE-ASSESSMENT and ADDRESS GAPS <br> Step 1 Roman numerals to 12 <br> Step 2 Tell the time to 5 minutes Step 3 Tell the time to the minute Step 4 Read time on a digital clock Step 5 Use am and pm Step 6 Years, months and days Step 7 Days and hours Step 8 Hours and minutes - use start and end times Step 9 Hours and minutes - use durations <br> Step 10 Minutes and seconds Step 11 Units of time Step 12 Solve problems with time Y3 POST ASSESSMENT and ADDRESS GAPS | Y2 PRE-ASSESSMENT and ADDRESS GAPS <br> Step 1 Turns and angles <br> Step 2 Right angles <br> Step 3 Compare angles <br> Step 4 Measure and draw accurately <br> Step 5 Horizontal and vertical <br> Step 6 Parallel and perpendicular <br> Step 7 Recognise and describe 2-D shapes <br> Step 8 Draw polygons <br> Step 9 Recognise and describe 3-D shapes <br> Step 10 Make 3-D shapes <br> Y3 POST ASSESSMENT and ADDRESS GAPS | Y2 PRE-ASSESSMENT and ADDRESS GAPS <br> Step 1 Interpret pictograms <br> Step 2 Draw pictograms <br> Step 3 Interpret bar charts <br> Step 4 Draw bar charts <br> Step 5 Collect and represent data <br> Step 6 Two-way tables <br> Y3 POST ASSESSMENT and ADDRESS GAPS |  | Y3 Summer Term Assessment |
|  | Add and subtract fractions with the same denominator within one whole Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators | Add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts | Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12 -hour and 24 -hour clocks Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight Know the number of seconds in a minute and the number of days in each month, year and leap year Compare durations of events | Recognise angles as a property of shape or a description of a turn Identify right angles, recognise that two right angles make a half turn, three make threequarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle <br> Measure the perimeter of simple 2-D shapes Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them Measure, compare, add and subtract: lengths $(\mathrm{m} / \mathrm{cm} / \mathrm{mm})$; mass $(\mathrm{kg} / \mathrm{g})$; volume $/$ capacity $(1 / \mathrm{ml})$ Identify horizontal and vertical lines and pairs of perpendicular and parallel lines | Interpret using bar and table Solve one questions presente charts an tables | present data <br> ts, pictograms <br> and two-step $g$ information caled bar tograms and |  |
|  | Engage with mathematical activities and problems, making links and moving between different representations (concrete, pictorial, abstract). Independently choose to scaffold thinking using concrete, pictorial or abstract representations, if required. <br> Independently choose to represent thinking using concrete, pictorial or abstract representations, as appropriate. <br> Independently find an efficient way to solve a range of problems. <br> Independently work systematically. <br> Independently find possibilities using patterns spotted to support. <br> Independently check and improve work (e.g. look for other possibilities, repeats, missing answers, errors and ways to improve). <br> Pattern spot and predict what will come next in a pattern/sequence (numbers, shape or spatial). <br> Independently investigate conjectures and provide examples and counter-examples. <br> When they have solved a problem, pose a similar problem for a peer. |  |  | EXS |  | GDS |  |
|  |  |  |  | For all mathematical concepts, ideas and techniques: Represent it in a variety of ways (e.g. using concrete materials, pictures and symbols - the CPA approach). Make up his or her own examples (and non-examples) of it. See connections between it and other facts or ideas. Recognise it in new situations and contexts. Make use of it in various ways, including in new situations. |  | Solve problems of greater complexity (i.e. where the approach is not immediately obvious), demonstrating creativity and imagination. Independently explore and investigate mathematical contexts and structures. |  |
|  | Provide a convinced argument. <br> Reflect on others' convinced explanations and use this to improve their work. Edit and improve their own and a peer's convinced explanation. <br> Investigate 'what if?' questions. <br> Create 'what if?' questions. |  |  | Describe it in his or her own words. Explain it to someone else. |  | Communicate results clearly and systematically explain and generalise the mathematics. |  |

