Maths Subject LTP 2023-2024


| YI | Place Value <br> (Within 10) <br> Count and sort objects <br> Represent numbers <br> Recognise numbers <br> and words <br> Count forwards and <br> backwards <br> I more, I less <br> Compare groups <br> and numbers <br> Fewer, more, same <br> Greater, less, equal <br> Order numbers <br> Number line <br> Addition and <br> Subtraction <br> Parts and wholes <br> Part-whole model <br> Number sentences | Addition and <br> Subtraction (within <br> 10) <br> Addition - add <br> more and add <br> together <br> Subtraction - find <br> a part and take <br> away <br> Fact families <br> I more I less <br> 2 more 2 less <br> Shape <br> Recognise name and sort 3D shapes Recognise name and sort 2D shapes Patterns of 2D and 3D shapes | Place Value (within <br> 20) <br> Count forward and backwards to 20 <br> Tens and Ones <br> I more I less <br> Compare / order numbers <br> Addition and Subtraction (within 20) <br> Add by making 10 Subtraction not crossing and crossing 10) <br> Related facts <br> Compare number sentences <br> Place Value (within <br> 50) <br> Numbers to 50 <br> Counting forwards and back to 50 <br> Tens and ones \| more | less | Place Value (within <br> 50) <br> Compare and order numbers to 50 <br> Count in 2 s <br> Count in 5 s <br> Length and Height <br> Compare and order lengths and heights Measure length <br> Adding and subtracting lengths <br> Mass and Volume <br> Measure and compare mass Measure and compare volume/capacity | Multiplication and Division <br> Count in 2s 5s 10s <br> Make equal groups <br> Add equal groups <br> Arrays <br> Doubles <br> Make equal groups <br> (grouping) <br> Make equal groups <br> (sharing) <br> Fractions <br> Making half <br> Making whole <br> Finding half <br> Making quarters <br> Find quarters <br> Position and <br> Direction <br> Describing turns and position | Place Value (within <br> 100) <br> Count forwards and back within 100 <br> Partition, compare and order numbers I more I less <br> Measurement - <br> Money <br> Recognise coins and notes Counting in coins <br> Time <br> Before and after Time to the hour Time to the half hour <br> Write time Compare time |
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| Y2 | Place Value <br> Numbers to ten Count in 10 s <br> Tens and ones Recognise place value grid Partition and write numbers within 100 | Addition and Subtraction 10 more 10 less Add and subtract 10s <br> Add and subtract two 2-digit numbers | Measurement- <br> Money <br> Count pence <br> Count pounds <br> Count notes and <br> coins <br> Make amounts <br> Compare amounts | Length and Height Measure compare and order lengths Four operations with lengths | Fractions <br> Parts and wholes Making equal parts Finding half Recognise and find quarters and thirds Unit and non-unit fractions | Statistics <br> Tally charts Pictograms Block diagrams |


|  | Number lines to 100 <br> Estimate using number lines <br> Compare numbers to 100 <br> Order objects and numbers <br> Count in 2 s 5 s 10 s <br> Count in 3s <br> Addition and <br> Subtraction <br> Bonds to 10 <br> Fact families and <br> bonds to 20 <br> Bonds to 100 <br> Add by making 10 <br> Add three I-digit <br> numbers <br> Add and subtract to next ten and across ten | not crossing ten and crossing ten Mixed addition and subtraction <br> Compare calculations Missing number problems <br> Shape <br> Recognise and make $2 D$ and $3 D$ shapes <br> Count sides and vertices on 2D shapes <br> Draw 2D shapes <br> Lines of symmetry <br> Sort and make <br> patterns with 2D <br> shapes <br> Count faces and edges on 3D shapes Sort and make patterns with 3D shapes | Find the total/difference <br> Find change <br> Two-step problems <br> Multiplication and <br> Division <br> Recognise and make equal groups <br> Add equal groups <br> Use the $\times$ sign <br> Multiplication <br> number sentences <br> Use arrays <br> Doubling <br> Make equal groups <br> (sharing/grouping) <br> Odd even numbers <br> Divide by 2510 | Mass, Capacity and <br> Temperature <br> Measure and <br> compare mass and <br> volume <br> ML / l <br> Four operations with mass/volume <br> Reading <br> temperature / <br> reading scales | Equivalence of two quarters and a half <br> Find three quarters <br> Count in fractions <br> Time <br> O'clock / half past <br> Quarter past/to <br> Tell the time to <br> 5 mins <br> Write time <br> Hours/days <br> Durations | Position and <br> Direction <br> Describe position, movement and turns <br> Make patterns with shapes |
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| y3 | Place Value <br> Represent and partition numbers within 100 <br> Number lines within 100 <br> Represent and partition numbers to 1000 | Addition and <br> Subtraction <br> Complements to 100 <br> Estimate answers <br> Inverse operations <br> Multiplication and <br> Division <br> Multiplication, equal groups | Multiplication and Division <br> Multiply 2-digit by 1-digit no exchange and exchange Divide 2-digit by Idigit Scaling | Fractions <br> Making a whole <br> Finding tenths <br> Fractions on a <br> number line <br> Making fractions of amounts of objects <br> Mass and Capacity | Fractions <br> Equivalent fractions Compare and order fractions <br> Add and subtract fractions <br> Money <br> Pounds/pence | Time <br> Durations <br> Start and end <br> times <br> Measuring time in seconds <br> Shape <br> Turns/angles <br> Right angles |


|  | Number lines within 1000 <br> One, ten, hundred more/less <br> Estimate, compare and order numbers within 1000 <br> Count in 50s <br> Addition and <br> Subtraction <br> Apply number bonds Add and subtract Is 10s 100s <br> Add and subtract 2-digit numbers not crossing and crossing tens <br> Add 2 and 3-digit numbers <br> Subtract 2-digit from 3-digit | Use arrays <br> Multiples of 2 <br> Multiples of 5 and <br> 10 <br> Sharing and grouping <br> 3 times table, multiply and divide by 3 <br> 4 times table, multiply and divide by 4 <br> 8 times table, multiply and divide by 8 <br> Shape <br> RECAP <br> 2D and 3D shape names and properties Lines of symmetry | Length and <br> Perimeter <br> Measure length <br> Compare lengths <br> Equivalent lengths ( $\mathrm{mm} / \mathrm{cm} / \mathrm{m}$ ) <br> Add and subtract <br> lengths <br> Measure perimeter <br> Calculate perimeter <br> Eractions <br> Recap half quarter thirds <br> Unit and non-unit fractions <br> Count in fractions | Measure and compare mass Add and subtract mass <br> Measure capacity/volume Compare capacity Add and subtract capacity Compare temperature | Convert pounds pence <br> Add and subtract <br> money <br> Give change <br> Time <br> Months/years <br> Hours in a day <br> Tell the time to the minute <br> Use am and pm 24-hour clock | Compare angles Horizontal/vertical <br> Parallel/ <br> Perpendicular <br> Recognise and name 2D and 3D shapes <br> Statistics <br> Pictograms <br> Bar Charts <br> Tables |
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| Y4 | Place Value <br> Numbers to 10,000 <br> Partitioning <br> Number lines <br> Comparing and <br> ordering <br> Rounding <br> Addition and <br> Subtraction <br> Add/subtract I, 10, $100$ | Area <br> Calculate by counting squares Compare area of shapes RECAP <br> Recognise and name 2D and 3D shapes <br> Multiplication and Division <br> Multiples | Multiplication and Division <br> Multiply by 10100 <br> II 12 times table <br> Multiply 3 numbers <br> Factor pairs <br> Written methods <br> Multiply 2 and 3- <br> digit by 1 -digit <br> Divide 2 and 3- <br> digit by I-digit | Fractions <br> Add and subtract <br> fractions <br> Fractions of amounts <br> Decimals <br> Tenths and hundredths Tenths on place value grid and number line | Decimals <br> Make a whole <br> Write decimals <br> Compare order and <br> round decimals <br> Halve and quarters <br> Money <br> Pounds and pence Order and estimate amounts <br> Calculate with money | Shape <br> Identify compare and order angles Triangles Quadrilaterals Lines of symmetry and complete symmetrical patterns <br> Statistics <br> Interpret charts |


|  | Add/subtract 4digit numbers no exchanging to exchanging Estimating and checking answers | Times Tables <br> Multiplying and dividing by individual tables Multiplying and dividing by 1 or 0 | Length and <br> Perimeter <br> Kilometres <br> Perimeter of <br> rectangles and <br> rectilinear shapes <br> Fractions <br> Equivalent fractions <br> Fractions greater <br> than I <br> Count in fractions | Divide by 10 Hundredths on place value grid and number lines Divide by 100 | Time <br> Hours minutes seconds Days months years Analogue to digital 12 and 24 -hour | Comparison sum and difference Line graphs <br> Position and Direction Describe position and movement on a grid |
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| Y5 | Place Value and Number Sense 5,6,7,8-digit numbers <br> - Reading and writing <br> - Counting in multiples of 10/100/1000 from various starting points <br> - Identifying value of digits <br> - Placing on number line <br> - Partitioning <br> - Manipulating value of digits within numbers <br> - Ordering <br> - Rounding to various degrees | Multiplication and Division <br> Multiplying and dividing by 10, 100, 1000 <br> (Link to place value) <br> Multiplying and dividing by multiples of 10 , 100, 1000 using known facts <br> Fractions <br> Recap properties of 2D shape (see MTP) <br> Find fractions equivalent to a unit fraction | Multiplication and <br> Division <br> Mental strategies <br> Written methods <br> Inverse operations <br> Fractions <br> Multiply fractions <br> Find fractions of amounts <br> Use fractions as operators <br> Decimals and <br> Percentages <br> Decimals to 2dp <br> Decimals as <br> fractions <br> Thousandths <br> Rounding decimals | Decimals and <br> Percentages <br> Compare and order decimals <br> Understand <br> percentages <br> Equivalent FDP <br> Shape <br> RECAP <br> 2D and 3D shape properties <br> Measuring and <br> drawing angles <br> Triangles <br> Quadrilaterals <br> Regular/irregular <br> Area and Perimeter <br> Measure and calculate perimeter | Statistics <br> Reading charts Reading line graphs Understand twoway tables and timetables <br> Position and <br> Direction <br> Coordinates <br> Translation <br> Reflection <br> Decimals <br> Calculating with decimals (all 4 operations) | Decimals <br> Decimal sequences <br> Negative Numbers <br> Number lines <br> Calculating with negative numbers <br> Converting Units <br> Km, m, cm, mm <br> $\mathrm{Kg}, \mathrm{g}$ <br> Units of time <br> Imperial units <br> Volume <br> Calculate volume Estimate volume and capacity |



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| 96 | Number and Place Value <br> Read, write, order and compare numbers upto $10,000,000$ and understand the values of each digit. <br> Use negative numbers in context and calculate numbers across zero <br> Solve number and practical problems that include all of the above <br> recap roman numerals <br> Addition, <br> Subtraction, Multiplication, Division <br> Add and subtract whole numbers Multiply upto 4 digit number by 1 or 2 digit Short division Division using factors | Fractions <br> Equivalent fractions Use common factors to simplify fractions; use common multiples to express fractions: <br> - Simplify fractions <br> - Improper to mixed fractions <br> - Add mixed numbers <br> -Subtract mixed numbers <br> Generate and describe linear number sequences: <br> -Fractions on a number line <br> Compare and order fractions >1: <br> -Compare and order fractions <br> Add and subtract fractions with different denominators including mixed numbers: <br> - Add and subtract fractions <br> Fractions | Ratio <br> Solve problems including relative sizes of two quantities: <br> -use ratio language -ratio and fractions -use ratio symbols Ratio and proportion problems RECAP compare and classify 2D shapes <br> Solve problems including scale factors of similar shapes: <br> -using scale factor <br> -calculating scale factors <br> Algebra <br> Use simple formulae: <br> -formulae <br> -forming equations <br> Generate and describe linear number sequences: <br> -Find a rule <br> Express missing number problems algebraically: | Measurement (Area, perimeter, volume) <br> Recognise that <br> shapes with the same area may have different perimeters Calculate areas of triangles and parallelograms Calculate, estimate and compare volume: <br> -counting cubes <br> -calculating volume <br> Statistics <br> RECAP properties of 2D shapes <br> Illustrate and name parts of circles <br> Interpret and discuss line graphs and pie charts: -draw line graphs -solve line graph problems <br> -draw pie charts -solve pie chart problems including percentages Calculate the mean | Geometry (Position and Direction) <br> Describe positions on the full coordinate grid <br> - First quadrant <br> - Four quadrants <br> Draw and translate simple shapes on the coordinate plane and reflect them in axes: <br> - Translation <br> - Reflection <br> Prime numbers <br> Square numbers <br> Cube numbers <br> Geometry <br> (Properties of <br> Shapes) <br> Draw 2D shapes <br> Compare and classify 2D shapes: <br> -angles in polygons <br> - angles in <br> quadrilaterals <br> -angles in triangles <br> Recognising angles where they meet at a point, on a straight line or vertically opposite: | y7 Preparation and Revision |



|  |  | -calculate metric <br> measures <br> Convert between <br> miles and <br> kilometres: | use the percentage <br> for comparison: <br> -percentage of an <br> amount <br> -percentage missing <br> values <br> Recall and use <br> equivalences <br> between fractions <br> decimals and <br> percentages <br> including in <br> different contexts: <br> -fractions to <br> percentages <br> -equivalent FDP <br> -order FDP <br> ard |  |
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