Lingfield Education Trust
Lingfield ®
Education Trust
Maths Medium-Term Plan \& Small Steps: Year 5
Autumn Term

|  | Place Value | Negative Numbers | Position \& Direction | Addition \& Subtraction | Multiplication \& Division | Perimeter \& Area | Assessment |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 3 weeks | 1 week | 2 weeks | 3 weeks | 3 weeks | 2 weeks | 1 week |
|  | - Read, write, order and compare numbers to at least $1,000,000$ and determine the value of each digit <br> - Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 <br> - Solve number problems and practical problems involving the above | - Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero | - Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed | - Add and subtract whole numbers with more than four digits, including using formal written methods (columnar addition and subtraction) <br> - Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why <br> - Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy |  | - Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres <br> - Calculate and compare the area of rectangles (including squares), including using standard units, square centimetres ( cm 2 ) and square metres (m2), and estimate the area of iregular shapes area of irregular shapes |  |
| $\begin{aligned} & \text { O } \\ & \frac{0}{\omega} \\ & \dot{\omega} \\ & \overline{\overline{0}} \\ & \dot{\sim} \end{aligned}$ | - Represent and know value of digits to 7 -digit <br> - Partition numbers to 7-digit 1, 10, 100, 1000, 10,000, 100,000 more <br> 1, 10, 100, 1000, 10,000, 100,000 more <br> Compare two numbers Order sets of numbers to 7 digit <br> - Round 4 -digit numbers to <br> - nearest $10,100,1000$ Round to nearest 10,100 , 1000 within 7 -digit 1000 within 7-digit | - Understand through ordering negative numbers including number line <br> - Count through zero in ones and other multiples <br> - Increases and decreases through zero <br> - Find the difference | - Read and plot coordinates in the first quadrant <br> - Translate a shape including coordinates <br> - Describe a translation including coordinates <br> - Lines of symmetry <br> - Reflections including coordinates | From Calculation Policy $1^{\text {st }}$ NOT WR \& Do CPA lessons <br> Column addition of 4-digit numbers no bridging then bridging including VF <br> - Column addition of 5 -digit or more numbers with bridging including VF <br> - Column addition of mixed numbers with bridging including VF <br> - Column subtract of 4 -digit numbers no exchanging then exchanging including VF <br> - Column subtract of 5 -digit or more numbers with exchanging including VF <br> - Column subtract of mixed PV numbers with exchanging including VF <br> - Estimate/approximate to <br> - $\quad$ Inverse to check | From Calculation Policy $1^{\text {st }} \mathrm{NOT}$ WR \& Do CPA lessons <br> - Multiply by $10,100,1000$ <br> - Divide by $10,100,1000$ <br> - Mixed multiply and divide by $10,100,1000$ <br> - Multiply $4 \times 1$ short <br> - Multiply $2 \times 2$ long <br> - Multiply $4 \times 2$ long <br> - Divide 4 by 1 using short no remainders at all including within <br> - Divide 4 by 1 using short <br> remainder only at end - Divide 4 by 1 using short remainder throughout | - Perimeter of rectangles Perimeter of compound ectilinear shapes <br> - Perimeter of polygons <br> - Area of rectangles <br> - Area of compound shapes | discussion - this must be given proper time |
| $\stackrel{\bar{E}}{\mathbf{0}}$ | Block Opener/Assembly on Careers linked to unit | Block Opener/Assembly on Careers linked to unit | Block Opener/Assembly on Careers linked to unit <br> Lingfield Education Trust TTRS Competition (16-20.10.23) | Block Opener/Assembly on Careers linked to unit <br> World Statistics Day (20.10.23) | Block Opener/Assembly on Careers linked to unit WR Barvember (November) | Block Opener/Assembly on Careers linked to unit <br> Lingfield Education Trust TTRS Competition (11-15.12.23) | LET Christmas Problems \& Puzzles |

Lingfield Education Trust
Maths Medium-Term Plan Small Steps: Year 5
Spring Term

|  | Volume | Multiplication \& Division | Fractions | Statistics | Decimals and Percentages | Assessment |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 week | 2 weeks | 6 weeks | 1 weeks | 3 weeks | 1 week |
|  | - Estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity <br> - Estimate volume and capacity for example, using water] | - Identify multiples and factorss, a number, and common factors of two numbers <br> Solve problems involving multiplication and division multipication and division, including using their knowledge of factors and multiples, squares and cubes <br> - Know and use the vocabulary of prime numbers, prime factors and composite (non-orime) numbers <br> - Establish whether a number up to 100 is prime and recall prime <br> - Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) |  | - Complete, read and interreret timetables |  | - Test to be made by Maths lead to match what has been taught - do $\frac{\text { not just Use WR End }}{\text { of Term Tests }}$ of Term Tests test es Day 2 go over and unpick the arithmetic test with loads of discussion - this must be given proper time <br> - Days 3 do <br> - Day 4 go over and unpick the reasoning test with loads of discussion - this must be given proper time |
| $\begin{aligned} & \text { o } \\ & \dot{U} \\ & \dot{\omega} \\ & \overline{\overline{0}} \\ & \dot{\omega} \end{aligned}$ | - Count volume using cubes Compare volumes <br> - Estimate volume <br> - Estimate capacity | - Multiples then common multiples: <br> - factors <br> - Common factors <br> - Prime numbers <br> - Square numbers <br> - Cube numbers |  | - Read and interpret tables Read and interpret two way tables <br> - Read and interpret timetables | - $\quad$ Decimals to 2 dp tenths <br> Equivalent fractions and decimals <br> hundredths <br> Thousandths as fractions and decimals <br> Order and compare decimals same amount of PV places Order and compare decimals any amount of PV places Round decimals to wholes and tenths <br> Understand percentages \& Percentages as fractions <br> - Percentages as decimals FDP Equivalence |  |
|  | Block Opener/Assembly on Careers linked to unit <br> International Puzzle Day (29.01.24) | Block Opener/Assembly on Careers linked to unit <br> Lingfield Education Trust TTRS Competition (05-09.02.24) <br> NSPCC Number Day (02.02.24) | Block Opener/Assembly on Careers linked to unit <br> World Maths Day (23.03.24) | Block Opener/Assembly on Careers linked to unit | Block Opener/Assembly on Careers linked to unit <br> Lingfield Education Trust TTRS Competition (11-15.03.24) | LET Easter Problems \& Puzzles |

Lingfield Education Trust
Maths Medium-Term Plan Small Steps: Year 5
Lingfield
Education Trust
Summer Term

|  | Decimals | Measurement | Properties of Shape | Statistics | Time | Consolidation | Assessment |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2 weeks | 2 weeks | 3 weeks | 1 week | 1 week | 1 week | 1 week |
|  | - Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents <br> - Solve problems involving number up to 3 decimal places <br> - Read, write, order and compare numbers with up to 3 decimal places <br> - Multiply and divide whole numbers and those involving decimals by 10 , 100 and 1,000 | - Convert between different units of metric measure [for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre] <br> - Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints | - Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles <br> - Draw given angles, and measure them in degrees ${ }^{\circ}$ ) <br> - Identify angles at a point and 1 whole turn (total $360^{\circ}$ ) <br> - Identify: angles at a point and 1 whole turn (total $360^{\circ}$; angles at a point on a straight line and half a turn (total $180^{\circ}$ ) <br> - Use the properties of rectangles to deduce related facts and find missing lengths and angles <br> - Distinguish between regular and irregular polygons based on reasoning about equal sides and angles <br> - Identify 3-D shapes, including cubes and other cuboids, from 2-D representations | - Solve comparison, sum and difference problems using information presented in a line graph | - Read Roman numerals to $1,000(M)$ and recognise years written in Roman numerals <br> - Solve problems involving converting between units of time <br> - Convert units of time <br> - Calculate with timetables | Use these weeks as spares in case of coverage issues and to revisit the following units: Place value All four operations Fractions | - Test to be made by Maths lead to match what has been taught - do not just use WR End of Term Tests <br> - Day 1 do arithmetic test <br> - Day 2 go over and unpick the arithmetic test with loads of discussion this must be given proper time <br> - Days 3 do reasoning test <br> - Day 4 go over and unpick the reasoning test with loads of discussion this must be given proper time |
| n $\stackrel{0}{1}$ $\dot{\omega}$ $\overline{\overline{0}}$ © $\dot{\omega}$ | - Multiply decimals by 10,100 , 1000 <br> - $\quad$ Divide decimals by $10,100,1000$ <br> - Add decimals including with <br> - different PV <br> - Subtract Decimals with different PV | - Kilograms and kilometres <br> - Millimetres and millilitres <br> - Converting units <br> - Units of time <br> - Converting with imperial units | - Degrees and classify angles <br> - Estimate and measure angles up to 180 <br> - Draw lines accurately teacher assess 22 <br> - Calculate angles within right angles <br> - Calculate angles on a straight line <br> - Calculate angles around a point <br> - Lengths and angles in shapes <br> - Regular and irregular polygons - teacher assess 21 <br> - 3d shapes | - $\quad$ Draw line graphs graphs | Roman Numerals to 1000 - $\quad$ Calculate time durations |  |  |
|  | Block Opener/Assembly on Careers linked to unit | Block Opener/Assembly on Careers linked to unit <br> Lingfield Education Trust TTRS Competition (20-24.05.24 <br> National Numeracy Day (15.05.24) <br> Women in Maths Day (12.05.24) | Block Opener/Assembly on Careers linked to unit <br> My Money Week (1216.06.24) <br> Alan Turing Day (23.06.24) <br> Allow you pupils practice on the maths orienteering course this term ready for the competition next term. | Block Opener/Assembly on Careers linked to unit <br> Lingfield Education Trus $\dagger$ TTRS Competition (01-05.07.24) <br> MP Maths Orienteering Competition for all year groups (01-05.07.24) | Block Opener/Assembly on Careers linked to unit <br> Lingfield Education Trus $\dagger$ maths Challenge (12.07.24) | LET Summer Problems \& Puzzles | LET Summer Problems \& Puzzles |

