|  | Place Value | Position \& Direction | Four Operations | Statistics \& Circles | Fractions A | Fractions B | Assessment |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 3 weeks | 1 week | 3 weeks | 2 weeks | 3 weeks | 2 weeks | 1 week |
|  | - Read, write, order and compare numbers up to $10,000,000$ and determine the value of each digit <br> - Round any whole number to a required degree of <br> - Use negative numbers in context, and calculate intervals across zero | - Describe positions on the quadrants) <br> - Draw and translate simple shapes on the coordinate plane, and reflect them in the axes |  | - Interpret and construct pie use these to solve problems <br> - Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs (Year 4) <br> - Calculate and interpret the mean as an average <br> - Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius | - $\begin{aligned} & \text { Use common factors to } \\ & \text { simplify fractions; use }\end{aligned}$ common multiples to express fractions in the compare and order fractions, including fractions $>1$ <br> - Add and subtract fractions with different denominators and mixed numbers, using fractions <br> - Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions <br> - Identify common factors, common multiples and prime numbers <br> - Solve addition and subtraction multi-step problems in contexts, deciding which operations why | - Multiply proper fractions whole numbers, supported by materials and diagrams (Y5) <br> - Multiply simple pairs of proper fractions, writing the <br> - $\quad \begin{aligned} & \text { answer in its simplest form } \\ & \text { Divide proper fractions by }\end{aligned}$ whole numbers |  |
| $\begin{aligned} & \text { ू } \\ & \frac{0}{\omega} \\ & \dot{\omega} \\ & \overline{\bar{\sigma}} \\ & \dot{\omega} \end{aligned}$ | - $\quad$ Numbers to $10,000,000$ Read and write numbers to 10,000,000 <br> - $\quad$ Powers of 10 Compare and order any integers <br> - Round any integer <br> - $\quad$ Negative numbers <br> eris to 1000 | - Read and plot points in four quadrants <br> - Solve problems with coordinates <br> - $\quad \begin{gathered}\text { Translations } \\ \text { Reflections }\end{gathered}$ | From Calculation Policy $1^{\text {st }} \mathrm{NOT}$ WR \& Do CPA lessons <br> - Add and subtract integers <br> Multiply up to a 4-digit <br> number by a 2 -digit <br> number <br> - Solve problems with <br> multiplication <br> - Short division <br> - Division using factors <br> - Introduction to long division <br> remainders <br> - Solve problems with division <br> - Solve multi-step problems <br> - Order of operations estimation | - Line graphs <br> - Dual bar charts <br> - Read and interpret pie charts <br> - Pie charts with percentages <br> - The mean <br> - circles | From policy for fraction calculating methods - must be school consistency! <br> Common factors Common multiples <br> Primes to 100 <br> Square and cube numbers <br> simplifying <br> Equivalent fractions on a <br> number line <br> - Compare and order (den) <br> - Compare and order (num) <br> and improper ( Y 5 ) <br> - Add and subtract simple <br> - fractions <br> - $\quad$ Add and subtract any two <br> - Add mixed numbers <br> - $\quad$ Subtract mixed number | From policy for fraction <br> calculating methods - must be <br> school consistency! <br> Multiply fractions by <br> integers <br> - Multioply fractions by <br> fractions <br> - Divide a fraction by an <br> - Divicie any fraction by an <br> integer <br> - Mixed questions with <br> - tractions <br> - Fraction of an amount Friccion of an amount- find the whole find the whole |  |
| $\begin{aligned} & \stackrel{\rightharpoonup}{\bar{\sigma}} \\ & \stackrel{\theta}{E} \end{aligned}$ | 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> World Statistics Day (20.10.23) | 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 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 |

Spring Term

|  | Decimals | FDP | Ratio | Algebra | Measures | Area, Perimeter, <br> Volume | Assessment |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2 weeks | 2 weeks | 2 weeks | 2 weeks | 1 week | 2 weeks | 1 week |
| National Curriculum | - Identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10 , 100 and 1,000 giving answers up to 3 decimal places <br> - Solve problems which require answers to be rounded to specified degrees of accuracy <br> - Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why <br> - Multiply 1 -digit numbers with up to 2 decimal places by whole numbers <br> - Use written division methods in cases where the answer has up to 2 decimal places <br> - Solve problems involving addition, subtraction, multiplication and division | - Use common factors to simplify fractions; use common multiples to express fractions in the same denomination <br> - Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction <br> - Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts <br> - Compare and order fractions, including fractions >1 <br> - Solve problems involving the calculation of percentages and the use of percentages for comparison | - Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts <br> - Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples <br> - Solve problems involving similar shapes where the scale factor is known or can be found | - Use simple formulae <br> - Generate and describe linear number sequences <br> - Find pairs of numbers that satisfy an equation with two unknowns <br> - Enumerate possibililies of combinations of two variables <br> - Express missing number problems algebraically | - Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate <br> - Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places | - Recognise that shapes with the same areas can have different perimeters and vice versa <br> - Recognise when it is possible to use formulae for area and volume of shapes <br> - Calculate the area of parallelograms and triangles <br> - Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units | - 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 |
| Small Steps | - Place value within 1 <br> - Place value - integers and decimals <br> - Round decimals <br> - Add and subtract decimals <br> - Multiply by 10,100 and 1,000 <br> - Divide by 10,100 and 1,000 <br> - Multiply decimals by integers <br> - Divide decimals by integers <br> - Multiply and divide decimals in context | - Decimal and fraction equivalents <br> - Fractions as division <br> - Understand percentages <br> - Fractions to percentages <br> - Equivalent fractions, decimals and percentages <br> - Order fractions, decimals and percentages <br> - Percentage of an amount - one step <br> - Percentage of an amount - multi-step <br> - Percentages - missing values | - Add or multiply? <br> - Use ratio language <br> - Introduction to the ratio symbol <br> - Ratio and fractions <br> - Scale drawing <br> - Use scale factors <br> - Similar shapes <br> - Ratio problems <br> - Proportion problems <br> - Recipes | - $\quad$-step function machines 2-step function m Form expressions <br> Substitution <br> Formulae <br> Form equations <br> Solve 1-step equations <br> Solve 2 -step equations Find pairs of values Solve problems with two unknowns | - Metric measures <br> - Convert metric measures <br> - Calculate with metric measures <br> - Miles and kilometres <br> - Imperial measures | - Shapes - same area Area and perimeter Area of a triangle counting squares Area of a right-angled triangle <br> - Area of any triangle <br> - Area of a parallelogram <br> - Volume - counting cubes <br> - Volume of a cuboid |  |
|  | Block Opener/Assembly on Careers linked to unit <br> International Puzzle Day (29.01.24) | Block Opener/Assembly on Careers linked to unit <br> NSPCC Number Day (02.02.24) <br> Lingfield Education Trust TTRS Competition (05-09.02.24) | 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 | Block Opener/Assembly on Careers linked to unit <br> Lingfield Education Trust TTRS Competition (11-15.03.24) | LET Easter Problems \& Puzzles |


|  | Properties of Shape | Revision | Projects |
| :---: | :---: | :---: | :---: |
|  | 2 weeks | 2 weeks | 7 weeks |
|  | - Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles <br> - $\quad$ Kraw given angles, and measure them in degrees ( ${ }^{\circ}$ ) (Y5) <br> Know angles are measured in degrees: estimate and compare acute, <br> - $\quad$ Obtuse and reflex angles (Y5) <br> sizes and find classily geometric shapes based on their properties and polygons <br> - Draw 2-D shapes using given dimensions and angles | SATs Revision | Best Value <br> Profits \& Losses <br> Packaging Cooking <br> White Rose Tours <br> White Rose Futures |
|  |  |  | IMEI Calculator project ready for Y7 |
|  | Block Opener/Assembly on Careers linked to unit National Numeracy Day (15.05.24) | Lingfield Education Trust TTRS Competition <br> Women in Maths Day (12.05.24) <br> Lingfield Education Trust TTRS Competition (20-24.05.24) <br> Allow you pupils practice on the maths orienteering course this term ready for the competition next term. | My Money Week (12-16/6/24) <br> My Money Week (12-16.06.24) <br> Alan Turing Day (23.06.24) <br> Lingfield Education Trust TTRS Competition <br> (01-05.07.24) <br> MP Maths Orienteering Competition for all year groups (01-05.07.24) Lingfield Education Trust maths Challenge (12.07.24) |

