| KIRFs (Key Instant Recall Facts) |  |  |
| :---: | :---: | :---: |
| Autumn | Spring | Summer |
| - I know one and two decimal place number bonds for numbers between 1 and 10 <br> - I know the multiplication and division facts for all times tables up to $12 \times 12$ | - Recap multiplication and division facts for all times tables up to $12 \times 12$ <br> - I can find factor pairs of a number <br> - I can identify prime numbers up to 50 | - I can recall square numbers up to $12^{2}$ and their square roots and multiplication and division facts for all times tables up to $12 \times 12$ <br> - Recall prime numbers up to 50 <br> - I can count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 |

Quick overall focus curriculum map:

| Strand | Number of weeks | Autumn | Spring | Summer |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \ddot{0} \\ & \frac{\pi}{2} \\ & \frac{1}{n} \end{aligned}$ | 1 | Round, compare, order place value to $\mathbf{1 0 , 0 0 0}$ | Round, compare, order place value to 100,000 | Round, compare, order place value to $1,000,000$ |
|  | 2 | Adding and subtracting mentally, formally and using estimating of values up to 10,000. | Adding and subtracting mentally, formally and using estimating including decimals of values up to 100,000 . | Adding and subtracting mentally, formally and using estimating including decimals and fractions of values up to 1,000,000. |
|  | 2/3 | To know times tables (up to $12 \times 12$ ), powers of 10 , factors, multiples and prime numbers up to 50. | To know times tables (up to $12 \times 12$ ), powers of 10 , factors, multiples and prime numbers up to 50. | To know times tables ( up to 12 $x$ 12), powers of 10 , factors, multiples and prime numbers up to 100. |
|  |  | Multiply 4-digit numbers by 1-digt numbers and powers of 10 | Multiply 4-digit numbers by 1digt numbers and teen numbers up to 20 | Multiply 4-digit numbers by 2digit numbers |
|  |  | Divide numbers with known number facts | Divide 4-digit numbers by 1digit numbers | Divide 4-digit numbers by 1digit numbers with remainders, showing fractions or decimal answers |
|  | 2/3 | Converting fractions into decimals and percentages, finding equivalent fractions hundredths up to 1. | Converting fractions into decimals and percentages, finding equivalent fractions thousandths, and to add and subtract fractions and decimals up to and beyond 1. | Converting fractions into decimals and percentages, finding equivalent fractions and to add, subtract and multiply fractions up to and beyond 1. |
|  | 1/2 | Metric conversions in fluency and word problems. | Metric and imperial conversions in fluency problems. | Metric and imperial conversions in fluency and word problems. |
|  |  | Perimeter of regular and composite shapes and volume regular shapes using different metric conversions. | Area of composite shapes, volume of shapes with the same metric length. | Perimeter and area of composite shapes, volume of shapes with different metric and imperial conversions. |
| $\begin{aligned} & \grave{y} \\ & \stackrel{1}{\omega} \\ & 0 \\ & 0 \\ & 0 \end{aligned}$ | 1/2 | Basic 2D and 3D shape. | Knowledge of angles and lengths distinguishing between regular and irregular polygons. | Solving missing angles that would create a right angle, straight line or a full turn |
|  |  | Translation and reflection of shapes. | Translations and reflections of shapes with coordinates | Translations and reflections of shapes with coordinates |
|  | 1 | Timetables | Timetables and line graphs | Tables and graphs |
| $\frac{\geq}{\overline{\bar{N}}} \stackrel{n}{\stackrel{n}{0}}$ | daily | Time, shapes, reading tables and graphs, times tables, multiplying and dividing by powers of 10 , roman numerals |  |  |

Maths Curriculum map 2020-2021
Year 5

|  | Autumn | Spring | Summer |
| :---: | :---: | :---: | :---: |
| (»әәм т) әпןел әэеן | (PM unit 1) <br> Focus 10000 <br> - Read, write and compare numbers to at least 10 000 and determine the value of each digit | (PM unit 1) <br> Focus 100000 <br> - Read, write and compare numbers to at least 100000 and determine the value of each digit | (PM unit 2) <br> Focus 1000000 <br> - Read, write and compare numbers to at least 1000000 and determine the value of each digit |
| $\begin{aligned} & \frac{\mathrm{C}}{\Gamma} \\ & \frac{1}{\vdots} \\ & \stackrel{0}{\xi} \\ & \frac{1}{2} \end{aligned}$ | - Count forwards or backwards in steps of powers of 10 from any given number up to 10,000 <br> - Round any number up to 10000 to the nearest 10, 100, 1000 and 10000 <br> - Solve number problems and practical problems that involve number, place value and rounding up to 10000 | - Count forwards or backwards in steps of powers of 10 from any given number up to 100000 <br> - Round any number up to 100 000 to the nearest 10, 100, 1000, 10000 and 100000 <br> - Solve number problems and practical problems that involve number, place value and rounding up to 100000 <br> - Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers through zero | - Count forwards or backwards in steps of powers of 10 from any given number up to 1000 000 <br> - Round any number up to 1000 000 to the nearest 10,100 , 1000, 10000 and 1000000 <br> - Solve number problems and practical problems that involve number, place value and rounding up to 1000000 <br> - Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers through zero |
| U | History - dates or periods of time Geography- distances on maps <br> Science- distances and diameters of planets, temperature - negative numbers |  |  |


|  | (PM | (P) | (P |
| :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { è } \\ & \ddot{\omega} \end{aligned}$ | Focus 10000 | Focus 100000 including decimals | Focus 1000000 including fractions |
|  | numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) of values up to 10000 | - Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) decimals of values up to 100 000 | - Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) decimals and fractions of values up to 1000000 |
| - | - Add and subtract numbers mentally with increasingly large numbers of values up to 10000 | - Add and subtract numbers mentally with increasingly large numbers of values up to 100000 | - Add and subtract numbers mentally with increasingly large numbers of values up to 1 000000 |
|  | - Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy of values up to 10000 | - Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy of values up to 100 000 | - Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy of values up to 1000000 |
|  | - Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why of values up to 10000 | - Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why of values up to 100000 | - Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why of values up to 1000 000 |
| U | DT- Food and calories in a Science - Height of plants Geography - distance betw | al <br> wth <br> n countries, height of mountains |  |



| Fractions, percentages and decimals ( $2 / 3$ weeks) | (PM unit 8-12)- <br> Focus on hundredths <br> - Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths making links to decimals and measures <br> - Recognise the per cent symbol (\%) and understand that per cent relates to "number of parts per hundred", and write percentages as a fraction with denominator hundred, and as a decimal fraction <br> - Read and write decimal numbers of up to 2 decimal places as fractions <br> - Compare and order fractions whose denominators are all multiples of the same number <br> - Solve problems involving number up to three decimal places, <br> - Solve problems which require knowing percentage and decimal equivalents of $1 / 2,1 / 4,1 / 5,2 / 5,4 / 5$ and those with a denominator of a multiple of 10 or 25 . | (PM unit 8-12) <br> Focus on thousandths, adding and subtracting <br> - Recognise mixed numbers and improper fractions and convert from one form to the other <br> - Add and subtract fractions with the same or different denominators <br> - Add and subtract decimals with a different number of decimal places <br> - Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths making links to decimals and measures <br> - Compare and order fractions whose denominators are all multiples of the same number <br> - Find fractions of numbers and quantities <br> - Read, write, order and compare numbers with up to three decimal places <br> - Round decimals with two decimal places to the nearest whole number and to one decimal place <br> - Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents | (PM unit 8-12) <br> Focus on Converting between PER DEC FRAC, including multiplying fractions <br> - Convert confidentially between percentages, decimals and fractions <br> - Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. <br> - Compare and order fractions whose denominators are all multiples of the same number <br> - Recognise mixed numbers and improper fractions and convert from one form to the other <br> - Add and subtract fractions with the same denominator and multiples of the same number <br> - Add and subtract decimals with a different number of decimal places <br> - Round decimals with two decimal places to the nearest whole number and to one decimal place <br> - Read, write, order and compare numbers with up to three decimal places <br> - Solve problems and puzzles involving number up to three decimal places, checking the reasonableness of answers <br> - Solve problems which require knowing percentage and decimal equivalents of $1 / 2,1 / 4,1 / 5,2 / 5$, $4 / 5$ and those with a denominator of a multiple of 10 or 25 . |
| :---: | :---: | :---: | :---: |
| U | DT- Fractions of foods and bala | ced diet |  |

Maths Curriculum map 2020-2021
Year 5

|  | - (PM unit 6 and 16) Focus on metric conversions and perimeter <br> - Convert between different units of metric measure <br> - Measure and calculate the perimeter of composite/ rectilinear shapes in centimetres and metres <br> - Use all four operations to solve problems involving measure <br> - Estimate volume <br> - Solve problems involving converting between units of time | - (PM unit 6,1 6 and 17) <br> Focus on Imperial conversions and area <br> - Understand and use equivalences between metric and common imperial units such as inches, pounds and pints <br> - Calculate and compare the area rectilinear shapes including using standard units, square centimetres ( $\mathrm{cm}^{2}$ ) and square metres ( $\mathrm{m}^{2}$ ) and estimate the area of irregular shapes <br> - Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres <br> - Use all four operations to solve problems involving measure | - (PM unit 6, 16 and 17) <br> Focus on metric and imperial conversions and on perimeter and area <br> - Understand and use equivalences between metric and common imperial units such as inches, pounds and pints <br> - Calculate and compare the area and perimeter of rectilinear shapes including using standard units, square centimetres ( $\mathrm{cm}^{2}$ ) and square metres ( $\mathrm{m}^{2}$ ) and estimate the area of irregular shapes <br> - Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres <br> - Calculate and compare the area of squares and rectangles including using standard units, square centimetres ( $\mathrm{cm}^{2}$ ) and square metres ( $\mathrm{m}^{2}$ ) and estimate the area of irregular shapes <br> - Estimate volume e.g. using $1 \mathrm{~cm}^{3}$ blocks to build cubes and cuboids and capacity <br> - Solve problems involving converting between units of time <br> - Use all four operations to solve problems involving measure |
| :---: | :---: | :---: | :---: |
| U | Art - painting specific areas - c Geography - size of land Business - creating a theme pa History - size of armies, land g | ism <br> consider where to place what. ed through war |  |



Maths Curriculum map 2020-2021

|  | (PM unit 4) <br> Focus on timetables <br> - Complete, read and interpret information in tables, including timetables. | (PM unit 4) <br> Focus on line graphs <br> - Complete, read and interpret information in tables, including timetables. <br> - Solve comparison, sum and difference problems using information presented in a line graph | (PM unit 4) <br> Focus on variation of graphs and tables <br> - Complete, read and interpret information in tables, including timetables. <br> - Solve comparison, sum and difference problems using information presented in line graphs |
| :---: | :---: | :---: | :---: |
| U | Science - Drawing line graphs, PSHE - creating findings of a Day to day time table | eading tables and various other grap cision, creating a bar chart to show | ome |

