## Acomb First School Year 4 Long term Mathematics Mastery Curriculum

| Long Term Plan |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 | Week 13 |
| $\begin{aligned} & -1 \\ & \frac{0}{3} \\ & - \end{aligned}$ | NUMBER <br> Place value | NUMBER Place value | NUMBER Place value | NUMBER <br> Addition and subtraction | NUMBER <br> Addition and subtraction | NUMBER <br> Addition and subtraction | NUMBER <br> Addition and subtraction | NUMBER Multiplication and division | NUMBER Multiplication and division | NUMBER Multiplication and division | NUMBER <br> Multiplicati on and division | NFER test week | GEOMETRY Property of shape |
| $\begin{aligned} & -1 \\ & \frac{D}{3} \\ & \vdots \\ & N \end{aligned}$ | NUMBER Fractions and decimals | NUMBER <br> Fractions and decimals | NUMBER <br> Fractions and decimals | NUMBER <br> Fractions and decimals | MEASURES Time | MEASURES Time | NUMBER Multiplication and division | NUMBER Multiplication and division | MEASURES <br> Length | MEASURES Length | Assessment |  |  |
| $\begin{aligned} & -1 \\ & \frac{0}{3} \\ & \omega \end{aligned}$ | MEASURES <br> Weight and capacity | MEASURES <br> Weight and capacity | GEOMETRY Direction | GEOMETRY Direction | STATISTICS | NFER test week | NUMBER Addition and subtraction | NUMBER Addition and subtraction | NUMBER Multiplication and division | NUMBER Multiplication and division | NUMBER <br> Fractions and decimals | GEOMETRY Property of shape | GEOMETRY Property of shape |

Mastery of number, place value and the 4 number operations and fractions, in term 1 will ensures a secure understanding and develops confidence. This will allow number knowledge to be better applied to other areas of maths. Although the main focus is number in the first term opportunities should be found to apply number teaching to real life situations and problem solving. Equally place value and the four operations of number will be constantly revisited in other areas of maths.

All units of work should have fluency, reasoning and problem solving elements. A greater weighting to reasoning and problem solving will be given in the final term providing opportunity for more able pupils to demonstrate GD and for other children to consolidate their learning.

Where ever possible opportunities should be found to apply maths to topic work ensuring a maths rich curriculum. Statistics and Measures will be covered in science and topic work

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| Year Group |  |  | 4 |  |  |  |  | 1 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
| Number - Place value <br> Count in multiples of 6, 7, 9. 25 and 1000. <br> Find 1000 more or less than a given number. <br> Count backwards through zero to include negative numbers. <br> Recognise the place value of each digit in a four digit number (thousands, hundreds, tens and ones) <br> Order and compare numbers beyond 1000. Identify, represent and estimate numbers using different representations. <br> Round any number to the nearest 10,100 or 1000. <br> Solve number and practical problems that involve all of the above and with increasingly large positive numbers. <br> Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value. |  |  | Number - Addition and subtraction <br> Add and subtract numbers with up to 4 digits using the formal written methods of column addition and subtraction where appropriate. <br> Estimate and use inverse operations to check answers to a calculation. <br> Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why |  |  |  | Number - Mu <br> Recall and use for multiplicatio <br> Use place valu multiply and di multiplying by multiplying tog <br> Recognise and commutativity two digit and th number using <br> Solve problem adding, includi multiply two di scaling problem problems such m objects. | Division <br> and division facts $12 \times 12$. <br> derived facts to ncluding: <br> g by 1 ; <br> mbers. <br> rs and lations. Multiply ers by a one digit ayout. <br> ltiplying and stributive law to one digit, integer correspondence re connected to | Nfer Tests | Geometry <br> Property of <br> shapes <br> Compare and classify <br> geometric <br> shapes, <br> including <br> quadrilaterals <br> and triangles, based on their properties and sizes. <br> Identify lines of symmetry in 2D shapes presented in different orientations. Complete a simple <br> symmetric <br> figure with respect to a specific line of symmetry. <br> Plot specified points and draw sides to complete a given polygon. |

## Acomb First School Year 4 Long term Mathematics Mastery Curriculum

| Year Group |  |  | 4 |  |  | Term |  | 2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 Week 10 | Week 11 |
| Number - Fractions and Decimals <br> Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. <br> Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. Count up and down in tenths. <br> Recognise that tenths arise from dividing an object into 10 equal parts and in dividing onedigit numbers |  |  |  | Measures - Time <br> Convert between different units of measure eg hour to minute. Read, write \& convert time between analogue and digital 12 and 14 hour clocks. <br> Solve problems involving converting from hours to minutes; minutes to seconds; years to mo |  | Number - Multiplication and Division <br> Recall and use multiplication and division facts for multiplication tables up to $12 \times 12$. <br> Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1 ; dividing by 1 ; multiplying together three numbers. <br> Recognise and use factor pairs and commutativity in mental calculations. Multiply two digit and three digit numbers by a one digit number using formal written layout. <br> Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects. |  | Measures -Length <br> Convert between different units of measure [for example, kilometre to metre] Measure and calculate the perimeter of a rectilinear figure (including squares) in cm and m Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres <br> Find the area of rectilinear shapes by counting squares | Assessment |

## Acomb First School Year 4 Long term Mathematics Mastery Curriculum

| Year Group |  |  | 4 |  | Term |  |  |  | 3 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 | Week 13 |
| Measu <br> Weigh Capac <br> Conve between differen measu kilogra gram; millilitre <br> Estima compa calcula differen measu | nd <br> units of (e.g. to to <br> and | Geome directio angles <br> Describe <br> on a 2D <br> coordina <br> first quad <br> Describe moveme between as trans given un left/ right down. <br> Identify obtuse a compare angles right ang size. | and <br> positions rid as s in the ant. <br> ts positions tions of a to the and up/ <br> ute and gles and and order to two sy | Statistics <br> Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. <br> Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. | Assessment | Number and sub <br> Add and numbers digits usin written $m$ column addition subtractio appropri <br> Estimate inverse check an calculatio <br> Solve ad subtractio problems deciding operation why | Addition ction <br> btract th up to 4 the formal hods of <br> where <br> nd use rations to ers to a <br> on and two step contexts, hich and use and | Number Multiplicat Division <br> Recall and us multiplication facts for multi tables up to 1 <br> Use place va and derived fa multiply and mentally, inclu multiplying by dividing by 1 ; together three <br> Recognise and pairs and com mental calcul Multiply two did digit numbers digit number written layout. <br> Solve problem multiplying and including using distributive la two digit num digit, integer problems and corresponden such as $n$ obj connected to | on and <br> and division lication $\times 12$. <br> e, known <br> cts to <br> vide <br> ding: <br> 0 and 1; <br> nultiplying <br> use factor mutativity in tions. <br> igit and three <br> by a one <br> sing formal <br> s involving <br> adding, <br> the <br> to multiply <br> ers by one <br> caling <br> harder <br> problems <br> cts are <br> m objects | Number Fractions and <br> Decimals <br> Recognise and use fractions as numbers: unit fractions and non-unit fractions with small <br> denominators. <br> Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit <br> fractions with small <br> denominators. <br> Count up and <br> down in tenths. <br> Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers | Geometry P shapes <br> Compare a geometric sh including qu and triangle on their pro sizes. <br> Identify line symmetry in shapes pre different ori Complete a symmetric respect to a line of symm <br> Plot specifie and draw s complete a polygon. | roperty of <br> d classify hapes, <br> adrilaterals <br> , based <br> erties and <br> of <br> 2D <br> ented in <br> ntations. <br> simple <br> gure with specific etry. <br> d points des to given |

