## LKS2 Long Term Maths Overview

| Year 3 Advent Term - 12 weeks |  |  |
| :---: | :---: | :---: |
| Weeks | Maths Topic | Objectives Covered |
| 1 | Place Value | - Identify, represent and estimate numbers using different representations <br> - Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones) <br> - Count from zero in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number <br> - Count from zero in multiples of $4,8,50$ and 100 <br> - Identify, represent and estimate numbers using different representations <br> - Read and write numbers up to 1,000 in numerals and words <br> - Compare and order numbers up to 1,000 |
| 2 | Place Value |  |
| 3 | Place Value |  |
| 4 | Addition and Subtraction | - Add and subtract numbers mentally, including: a 3-digit number and ones, a 3-digit number and tens and a 3 -digit number and hundreds <br> - Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction <br> - Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction <br> - Estimate the answer to a calculation and use inverse operations to check answers |
| 5 | Addition and Subtraction |  |
| 6 | Addition and Subtraction |  |
| 7 | Addition and Subtraction |  |
| 8 | Addition and Subtraction |  |
| 9 | Multiplication and division | - Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods <br> - Show that multiplication of two numbers can be done in any order (commutative) and division on one number by |
| 10 | Multiplication and division |  |
| 11 | Multiplication and division |  |
| 12 | Multiplication and division |  |



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another cannot (Y2)

- Count in steps of 2, 3 and 5 from 0 , and in 10 s from any number, forward and backward (Y2)
- Recall and use multiplication and division facts for the 2 , 5 and 10 multiplication tables, including recognising odd and even numbers (Y2)
- Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables

| Year 3 Lent Term - 12 weeks |  |  |
| :---: | :---: | :---: |
| Weeks | Maths Topic | Objectives Covered |
| 1 | Multiplication and Division | - Recall and use multiplication facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers (Y2) <br> - Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods <br> - Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which $n$ objects are connected to $m$ objects |
| 2 | Multiplication and Division |  |
| 3 | Multiplication and Division |  |
| 4 | Length and Perimeter | - Measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); volume/capacity ( $\mathrm{l} / \mathrm{ml}$ ) <br> - Measure the perimeter of simple 2-D shapes |
| 5 | Length and Perimeter |  |
| 6 | Length and Perimeter |  |
| 7 | Fractions A | - Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators |
| 8 | Fractions A |  |


| 9 | Fractions A | - Compare and order unit fractions, and fractions with the same denominators <br> - Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators <br> - Measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); volume/capacity ( $(1 / \mathrm{ml}$ ) <br> - Recognise and show, using diagrams, equivalent fractions with small denominators |
| :---: | :---: | :---: |
| 10 | Mass and Capacity | - Measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); volume/capacity ( $(1 / \mathrm{ml})$ |
| 11 | Mass and Capacity |  |
| 12 | Mass and Capacity |  |


| Year 3 Pentecost Term - 12 weeks |  |  |
| :---: | :---: | :---: | :---: |
| Weeks | Maths Topic | Objectives Covered |


|  |  | o'clock, am/pm, morning, afternoon, noon and midnight <br> - Know the number of seconds in a minute and the number of days in each month, year and leap year <br> - Compare durations of events |
| :---: | :---: | :---: |
| 8 | Shape | - Recognise angles as a property of shape or a description of a turn <br> - Identify right angles, recognise that two right angles make a half turn, three make three-quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle <br> - Measure the perimeter of simple 2-D shapes <br> - Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them <br> - Measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); volume/capacity ( $(1 / \mathrm{ml}$ ) <br> - Identify horizontal and vertical lines and pairs of perpendicular and parallel lines |
| 9 | Shape |  |
| 10 | Statistics | - Interpret and present data using bar charts, pictograms and tables <br> - Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables |
| 11 | Statistics |  |
| 12 | Statistics |  |


| Year 4 Advent Term - 12 weeks |  |  |
| :---: | :---: | :---: |
| Weeks | Maths Topic | Objectives Covered |
| 1 | Place Value | - Read and write numbers up to 1,000 in numerals and words -Identify, represent and estimate numbers using different representations <br> - Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones) (Y3) <br> - Count in multiples of 6, 7, 9, 25 and 1,000 <br> - Recognise the place value of each digit in a 4-digit number (thousands, hundreds, tens and ones) <br> - Find 1,000 more or less than a given number <br> - Order and compare numbers beyond 1,000 <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 <br> - Round any number to the nearest 10,100 or 1,000 |
| 2 | Place Value |  |
| 3 | Place Value |  |
| 4 | Place Value |  |
| 5 | Addition and Subtraction | - Add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate <br> - Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why <br> - Estimate and use inverse operations to check answers to a calculation |
| 6 | Addition and Subtraction |  |
| 7 | Addition and Subtraction |  |
| 8 | Area | - Find the area of rectilinear shapes by counting squares |
| 9 | Multiplication and division | - Recall multiplication and division facts for multiplication tables up to $12 \times 12$ <br> - Recognise and use factor pairs and commutativity in mental calculations <br> - Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1 ; dividing by 1 ; multiplying together 3 numbers |
| 10 | Multiplication and division |  |
| 11 | Multiplication and division |  |
| 12 | Consolidation |  |


| Year 4 Lent Term - 12 weeks |  |  |
| :---: | :---: | :---: |
| Weeks | Maths Topic | Objectives Covered |
| 1 | Multiplication and Division | - Recognise and use factor pairs and commutativity in mental calculations <br> - Recall multiplication and division facts for multiplication tables up to $12 \times 12$ <br> - Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 (Y5) <br> - Solve problems involving multiplying and adding, including using the distributive law to multiply 2-digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects <br> - Recognise and use factor pairs and commutativity in mental calculations <br> - Multiply 2 -digit and 3 -digit numbers by a 1 -digit number using formal written layout <br> - Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1 ; dividing by 1 ; multiplying together 3 numbers |
| 2 | Multiplication and Division |  |
| 3 | Multiplication and Division |  |
| 4 | Length and Perimeter | - Convert between different units of measure [for example, kilometre to metre; hour to minute] <br> - Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres |
| 5 | Length and Perimeter |  |
| 6 | Fractions | - Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators (Y3) <br> - Recognise and show, using diagrams, families of common equivalent fractions <br> - Add and subtract fractions with the same denominator |
| 7 | Fractions |  |
| 8 | Fractions |  |
| 9 | Fractions |  |
| 10 | Decimals A | - Count up and down in tenths; recognise that tenths |


| 11 | Decimals A |
| :--- | :--- |
| 12 | Decimals A |
|  |  |
|  |  |

arise from dividing an object into 10 equal parts and in dividing 1-digit numbers or quantities by 10 (Y3)

- Recognise and write decimal equivalents of any number of tenths or hundredths
- Compare numbers with the same number of decimal places up to 2 decimal places
- Find the effect of dividing a 1- or 2-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths
- Count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10
- Recognise and show, using diagrams, families of common equivalent fractions

| Year 4 Pentecost Term-12 weeks |  |  |
| :---: | :---: | :---: |
| Weeks | Maths Topic | Objectives Covered |
| 1 | Decimals B | - Recognise and write decimal equivalents of any number |
| 2 | Decimals B | - Solve simple measure and money problems involving fractions and decimals to 2 decimal places <br> - Compare numbers with the same number of decimal places up to 2 decimal places <br> - Round decimals with 1 decimal place to the nearest whole number <br> - Recognise and write decimal equivalents to $1 / 4,1 / 2$ and 3/4 |
| 3 | Money | - Estimate, compare and calculate different measures, |
| 4 | Money |  |
| 5 | Time | - Solve problems involving converting from hours to |


| 6 | Time | minutes, minutes to seconds, years to months, weeks to days <br> - Read, write and convert time between analogue and digital 12-and 24-hour clocks |
| :---: | :---: | :---: |
| 7 | Consolidation |  |
| 8 | Shape | - Identify acute and obtuse angles and compare and order angles up to two right angles by size <br> - Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes <br> - Identify lines of symmetry in 2-D shapes presented in different orientations <br> - Complete a simple symmetric figure with respect to a specific line of symmetry |
| 9 | Shape |  |
| 10 | Statistics | - 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 |
| 11 | Position and direction | - Describe positions on a 2-D grid as coordinates in the first quadrant <br> - Plot specified points and draw sides to complete a given polygon <br> - Describe movements between positions as translations of a given unit to the left/right and up/down |
| 12 | Position and direction |  |


| Year 3/4 Advent Term-12 weeks |  |  |
| :---: | :---: | :---: |
| Weeks | Maths Topic | Objectives Covered |
| 1 | Place Value | - Identify, represent and estimate numbers using different representations <br> - Recognise the place value of each digit in a 3 -digit number (hundreds, tens, ones) <br> - Count from zero in multiples of $4,8,50$ and 100 ; find 10 or 100 more or less than a given number <br> - Count from zero in multiples of $4,8,50$ and 100 <br> - Identify, represent and estimate numbers using different representations <br> - Read and write numbers up to 1,000 in numerals and words <br> - Compare and order numbers up to 1,000 <br> - Read and write numbers up to 1,000 in numerals and words -Identify, represent and estimate numbers using different representations <br> - Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones) (Y3) <br> - Count in multiples of $6,7,9,25$ and 1,000 <br> - Recognise the place value of each digit in a 4-digit number (thousands, hundreds, tens and ones) <br> - Find 1,000 more or less than a given number <br> - Order and compare numbers beyond 1,000 <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 <br> - Round any number to the nearest 10,100 or 1,000 |
| 2 | Place Value |  |
| 3 | Place Value |  |
| 4 | Addition and Subtraction | - Add and subtract numbers mentally, including: a 3-digit number and ones, a 3 -digit number and tens and a 3 -digit number and hundreds <br> - Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction <br> - Solve problems, including missing number problems, |
| 5 | Addition and Subtraction |  |
| 6 | Addition and Subtraction |  |
| 7 | Addition and Subtraction |  |



|  |  | dividing by 1 ; multiplying together 3 numbers |
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| Year 3/4 Lent Term - 12 weeks |  |  |
| :---: | :---: | :---: |
| Weeks | Maths Topic | Objectives Covered |
| 1 | Multiplication and Division | - Recall and use multiplication facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers (Y2) <br> - Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1 -digit numbers, using mental and progressing to formal written methods <br> - Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which $n$ objects are connected to $m$ objects <br> - Recognise and use factor pairs and commutativity in mental calculations <br> - Recall multiplication and division facts for multiplication tables up to $12 \times 12$ <br> - Multiply and divide whole numbers and those involving decimals by 10,100 and 1,000 (Y5) <br> - Solve problems involving multiplying and adding, including using the distributive law to multiply 2 -digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to $m$ objects <br> - Recognise and use factor pairs and commutativity in mental calculations <br> - Multiply 2 -digit and 3 -digit numbers by a 1 -digit number using formal written layout <br> - Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1 ; |
| 2 | Multiplication and Division |  |
| 3 | Multiplication and Division |  |


|  |  | dividing by 1 ; multiplying together 3 numbers |
| :---: | :---: | :---: |
| 4 | Length and Perimeter | - Measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); volume/capacity ( $(1 / \mathrm{ml})$ <br> - Measure the perimeter of simple 2-D shapes <br> - Convert between different units of measure [for example, kilometre to metre; hour to minute] <br> - Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres |
| 5 | Length and Perimeter |  |
| 6 | Length and Perimeter |  |
| 7 | Fractions A | - Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators <br> - Compare and order unit fractions, and fractions with the same denominators <br> - Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators <br> - Measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); volume/capacity ( $1 / \mathrm{ml}$ ) <br> - Recognise and show, using diagrams, equivalent fractions with small denominators <br> - Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators (Y3) <br> - Recognise and show, using diagrams, families of common equivalent fractions <br> - Add and subtract fractions with the same denominator |
| 8 | Fractions A |  |
| 9 | Fractions A |  |
|  |  |  |
| 10 | Mass and Capacity | - Measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); volume/capacity ( $1 / \mathrm{ml}$ ) |
| 11 | Mass and Capacity |  |
| 12 | Mass and Capacity |  |
| 10 | Decimals A | - Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing 1-digit numbers or quantities by 10 (Y3) <br> - Recognise and write decimal equivalents of any number |
| 11 | Decimals A |  |


| 12 | Decimals A | of tenths or hundredths <br> - Compare numbers with the same number of decimal places up to 2 decimal places <br> - Find the effect of dividing a 1 - or 2-digit number by 10 and 100 , identifying the value of the digits in the answer as ones, tenths and hundredths <br> - Count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10 <br> - Recognise and show, using diagrams, families of common equivalent fractions |
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| Year 3/4 Pentecost Term-12 weeks |  |  |
| :---: | :---: | :---: |
| Weeks | Maths Topic | Objectives Covered |
| 1 | Fractions B / Decimals B | - Add and subtract fractions with the same denominator within one whole <br> - Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators <br> - Recognise and write decimal equivalents of any number of tenths or hundredths <br> - Solve simple measure and money problems involving fractions and decimals to 2 decimal places <br> - Compare numbers with the same number of decimal places up to 2 decimal places <br> - Round decimals with 1 decimal place to the nearest whole number <br> - Recognise and write decimal equivalents to $1 / 4,1 / 2$ and 3/4 |
| 2 | Fractions B / Decimals B |  |
|  |  |  |
| 3 | Money | - Add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts |
| 4 | Money |  |


|  |  | - Estimate, compare and calculate different measures, including money in pounds and pence |
| :---: | :---: | :---: |
| 5 | Time | - Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks <br> - Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight <br> - Know the number of seconds in a minute and the number of days in each month, year and leap year <br> - Compare durations of events <br> - Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days <br> - Read, write and convert time between analogue and digital 12- and 24-hour clocks |
| 6 | Time |  |
|  |  |  |
| 7 | Time / Consolidation | See Year 3 Objectives listed above. Year 4 Consolidation |
| 8 | Shape | - Recognise angles as a property of shape or a description of a turn <br> - Identify right angles, recognise that two right angles make a half turn, three make three-quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle <br> - Measure the perimeter of simple 2-D shapes <br> - Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them <br> - Measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); volume/capacity ( $(1 / \mathrm{ml}$ ) <br> - Identify horizontal and vertical lines and pairs of perpendicular and parallel lines |
| 9 | Shape |  |


|  |  | - Identify acute and obtuse angles and compare and order angles up to two right angles by size <br> - Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes <br> - Identify lines of symmetry in 2-D shapes presented in different orientations <br> - Complete a simple symmetric figure with respect to a specific line of symmetry |
| :---: | :---: | :---: |
| 10 | Statistics | - Interpret and present data using bar charts, pictograms and tables <br> - Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables |
| 11 | Statistics |  |
| 12 | Statistics |  |
| 10 | Statistics | - 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 |
| 11 | Position and direction | - Describe positions on a 2-D grid as coordinates in the first quadrant |
| 12 | Position and direction | - Plot specified points and draw sides to complete a given polygon <br> - Describe movements between positions as translations of a given unit to the left/right and up/down |

