



Bishop Martin CE Primary School - Mathematics Subject Overview



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
2Yr Old	Nursery Rhyme Focus – Children’s ‘number sense’ will be developed alongside their communication and language skills. The children will sing rhymes to help develop and understanding of number and pattern.					
	Nursery Rhyme Focus This Little Piggy Five Little Monkeys Clap, Clap Hands 1,2,3	Nursery Rhyme Focus Five Elves Jumping on the Bed Five Little Snowmen Five Little Penguins	Nursery Rhyme Focus Little Bo Peep Three Blind Mice Baa, Baa Black Sheep	Nursery Rhyme Focus Five Currant Buns 1,2,3,4,5, Once I caught... Five Speckled Hens	Nursery Rhyme Focus This Old Man Five Little Apples Hickory, Dickory Dock	Nursery Rhyme Focus There were Five in the bed... Five Little Ducks Five Fat Sausages
	Take part in finger rhymes with numbers, Count in everyday contexts, sometimes skipping numbers. Develop counting behaviour, such as making sounds.	Count in everyday contexts, sometimes skipping numbers. Develop counting behaviours, such as making sounds and pointing, Notice patterns and arrange things in pattern. Build with a range of resources.	React to changes of amount in a group of up to three items. Develop counting behaviour, such as making sounds, pointing and saying some numbers in sequence. Compare sizes, weights, etc – bigger/little/smaller and tall/heavy.	Count in everyday contexts, sometimes skipping numbers. Develop counting behaviour, such as making sounds, pointing and saying some numbers in sequence. Compare sizes – bigger/little/smaller. Put objects inside others and take them out again.	Count in everyday contexts, sometimes skipping numbers. Develop counting behaviour, such as sounds, pointing and saying some numbers in sequences. Compare amounts, saying ‘lots’, ‘more’ and ‘same’. Compare sizes and use language high/low.	Count in everyday contexts, sometimes skipping numbers. Develop counting behaviour, such as making sounds, pointing and saying some numbers in sequence. Put objects inside others and take them out again. Notice patterns and arrange things in patterns.
Nursery	Nursery Rhyme Focus – Children’s ‘number sense’ will be developed alongside their communication and language skills. The children will sing rhymes to help develop and understanding of number and pattern. Maths linked to Stories – Children will develop their love of Maths through stories that they are learning. Number of the Week – Children will develop their ‘number sense’ throughout the year by learning number rhymes and focusing on ‘Number of the Week’. The children will explore numbers 1-5 using deeper thinking by making connections and exploring number patterns.					
	Owl Babies Number: Begins to understand the concept of counting with one number for each object. Can count up to 3 objects reliably, using number names in sequence Begins to use the terms "more" or "less" when comparing two groups of objects (e.g., "I have more blocks than you"). Numerical Patterns: Begins to recognise and create simple repeating patterns. Shape, Space, and Measures:	Stickman Number: Can count reliably up to 5 objects, saying one number name for each object. Begins to associate numerals with quantities. Explores the concepts of "more" and "fewer" and may begin to understand that numbers represent quantities. Numerical Patterns: Continues to extend simple patterns and may start creating their own patterns using objects, colours, or shapes.	The Gingerbread Man Number: Counts reliably up to 5 objects and begin counting beyond 5 with support. Recognises numerals up to 5 and can match them to quantities. Shows interest in simple addition and subtraction. Numerical Patterns: Begins to recognise simple number patterns (e.g., 1, 2, 3 or 2, 4, 6) and can create and repeat their own patterns.	The Very Hungry Caterpillar Number: Counts reliably up to 5 and sometimes beyond, using one-to-one correspondence. Begins to understand simple addition and subtraction in everyday situations. Can compare groups of objects, using terms like "more, less, the same." Numerical Patterns: Recognises and creates simple repeating patterns involving shapes, colours, or numbers.	Jack and the Beanstalk Number: Counts reliably up to 5 or 10 objects, using one-to-one correspondence. May begin to use simple addition and subtraction with concrete objects (e.g., "2 blocks and 2 more blocks, makes 4 blocks"). Begins to understand that numbers represent quantities and can be used to compare amounts. Numerical Patterns:	Hamda’s Surprise Number: Counts reliably up to 5 and beyond, with some understanding of the quantities involved. Begins to use counting in more complex situations, such as during games or in group activities. Can compare numbers and begins to show an interest in basic addition and subtraction. Numerical Patterns: Can create and extend simple patterns.

	Identifies basic shapes like circles, squares, etc. Uses simple positional language, such as “in,” “on,” to describe the position of objects. Explores size concepts, such as “big” and “small,” and begins comparing objects using these terms.	Shape, Space, and Measures: Begins to recognise some 3D shapes and may begin to describe them using terms like "round" or "flat." Uses positional language to describe where objects are in relation to each other. Explores concepts of size, comparing objects as "bigger," "smaller"	Can start to understand the concept of "how many" objects there are in a repeating pattern. Shape, Space, and Measures: Continues to explore 2D shapes and begins to compare their properties. Uses language related to size to describe objects and compare them. Explores and compares objects based on shape and size.	Uses the language of pattern when describing or extending patterns. Shape, Space, and Measures: Identifies and describes some basic 2D and 3D shapes by their properties. Uses more positional language to describe objects. Explores and compares size using more complex comparisons.	Creates, continues, and repeats patterns involving two attributes Begins to understand that patterns can be numerical (e.g., recognising simple counting sequences such as 1, 2, 3). Shape, Space, and Measures: Identifies and describes 2D and 3D shapes with more detail. Explores size and measurement further, comparing objects by length, weight, and height (e.g., “The pencil is longer than the crayon”). Begins to understand simple time concepts such as morning, afternoon, and evening.	Recognises and creates number sequences, starting from any number within the range of numbers they know (e.g., "5, 6, 7" or "2, 4, 6, 8"). Shape, Space, and Measures: Identifies, names, and describes a variety of shapes, including basic 3D shapes. Compares and measures objects by height, weight, and length, using language such as “taller,” “shorter,” and “heavier.” Understands basic positional language and can use it to describe the location of objects
Reception	Subitising within Three Focusing on Counting Skills Explore how all numbers are made of 1s. Focus on composition of 3 and 4. Subitise objects and sounds. Comparison of sets by 'looking'. Use of comparison language (more than/fewer than).	Focusing on Counting Skills. Focus on the ‘five-ness of 5’ using one hand and the die pattern for 5. Comparison of sets - by Matching. Use the language of comparison: more than, fewer than, an equal number. Explore the concept of ‘whole’ and ‘part’. Focus on the composition of 3, 4 and 5. Practise object counting Skills. Match numerals to quantities within 10. Verbal counting beyond 20.	Subitise within 5 focusing on die patterns. Match numerals to quantities within 5. Counting – focus on ordinality and the ‘staircase’ pattern. See that each number is one more than the previous number. Focus on 5. Focus on 6 and 7 as ‘5 and a bit’. Compare sets and use language of comparison: more than, fewer than, an equal number to. Make unequal sets equal.	Focus on the ‘staircase’ pattern and ordering numbers. Focus on ordering of numbers to 8. Use language of less than. Focus on 7. Doubles – explore how some numbers can be made with 2 equal parts. Sorting numbers according to attributes - odd and even numbers.	Sorting numbers according to attributes - odd and even numbers. Subitising – to 6, including in structured arrangements. Composition – ‘5 and a bit’. Composition - of 10. Comparison – linked to ordinality.	Subitise to 5 Introduce the Rekenrek. Automatic recall of bonds to 5. Composition of numbers to 10. Comparison of numbers. Number Patterns. Counting.

Year 1	Maths ELG Retrieval. (2 days).	Chapter 4 – Subtraction Within 10. Number of Lessons – 6 (2 weeks) Understand that subtraction is taking away. Subtract using number bonds. Subtract by counting back. Solve addition and subtraction problems.	Chapter 7 – Addition and Subtraction Within 20. Number of Lessons – 7 (1 week) Continued	Chapter 11 – Addition and Subtraction Word Problems. Number of Lessons – 6 (2 weeks) Addition and subtraction multi-step problems.	Chapter 14 – Fractions. Number of Lessons – 3 (2 weeks) Split an object into two equal parts. Split an object into four equal parts. Share and group into halves and quarters.	Chapter 16 – Time. Number of Lessons – 6 (1 week) Continued
	<u>Chapter 1 – Numbers to 10. Number of Lessons – 7 (3 weeks)</u> Count number to 10 – forwards and backwards. Count similar objects to 10. Read and write numbers to 10 in numerals and words. Understand what 0 represents. Understand more and less than. Order numbers to 10, knowing what is greater and lesser in value.	Chapter 5 – Positions. Number of Lessons – 3 (1 week) Use positional language for up to 10 positions. Name positions in a queue. Know left and right.	Chapter 8 – Shapes and Patterns. Number of Lessons – 4 (2 weeks) Recognise four basic 3D shapes: sphere, cubes, cuboids and pyramids. Recognise 2D shapes in the environment. Group shapes and make patterns.	Chapter 12 – Multiplication. Number of Lessons – 5 (2 weeks) Identify equal groups. Count in equal groups. Organise groups in equal rows. Understand doubling.	Chapter 15: Numbers to 100. Number of Lessons – 4 (2 week) Count in groups of 10. Count numbers to 100. Represent numbers to 100 using tens and ones. Compare numbers to 100. See patterns within numbers.	Chapter 17– Money. Number of Lessons – 2 (1 week) Recognise coins and determine their value. Recognise notes and determine their value.
	Chapter 2 – Number Bonds. Number of Lessons – 2 (1 week) Understand how number bonds are formed.	Chapter 6 – Numbers to 20. Number of Lessons – 5 (2 weeks) Count numbers up to 20 by making 10. Read, recognise and write numbers to 20 in numerals and words. Compare more and less within 20. Arrange numbers to 20 in ascending and descending order. Spot patterns in numbers to 20.	Chapter 9 – Length and Height. Number of Lessons – 4 (1 week) Compare height and length. Measure using non-standard units. Understand the concept of a ruler.	Chapter 13 – Division. Number of Lessons – 2 (1 week) Divide even numbers into equal groups.	Chapter 16 – Time. Number of Lessons – 6 (1 week) Identify the hour and minute hand. Tell the time to the hour on an analogue clock. Tell the time to half hour, using the term ‘half past’. Sequence familiar events. Compare lengths of time. Know days of week and months of year.	Chapter 18 – Volume and Capacity. Number of Lessons – 3 (1 week) Compare volume. Find the capacity using non-standard units. Describe volume using half and quarter.
	Chapter 3 – Addition Within 10. Number of Lessons – 5 (2 weeks) Add two numbers within 10. Add by counting on. Complete addition number sentences. Understand the inverse operation.	Chapter 7 – Addition and Subtraction Within 20. Number of Lessons – 7 (2 weeks) Add by counting on from a greater number. Add two numbers by making 10 first. Add the sum of ones to the 10.	Chapter 10 – Numbers to 40. Number of Lessons – 6 (2 weeks) Count above 10. Represent numbers on a number line. Write numbers to 40.			Chapter 19 – Mass. Number of Lessons – 4 (1 week) Compare the mass of objects. Find the mass using non-standard objects.
						Chapter 20 – Space. Number of Lessons – 4 (1 week)

		Subtract from the ones column. Subtract from the tens when there aren't enough ones. Identify number facts derived from addition and subtraction.	Represent numbers using tens and ones. Compare two/three numbers. Arrange numbers in order of size. Find patterns in number.			Describe the position of objects. Know how to make turns.
<u>Year 2</u>	Maths End of Y1 Retrieval. (2 days).	Chapter 3 – Multiplication 2s, 5s and 10s. Number of Lessons – 10 (3 weeks) Understand that multiplication is the same as repeated addition. Know the 2-times table. Know the 5-times table. Know the 10-times table. Understand commutative law. Solve problems.	Chapter 6 – Mass. Number of Lessons – 7 (2 weeks) Measure mass in kilograms. Measure mass in grams. Measure mass using scales. Compare mass. Solve problems.	Chapter 10– Money. Number of Lessons – 10 (2 weeks – combine) Identify pounds (£) and pence (p) and their respective symbols. Count money in notes and use the symbol for pounds (£). find different combinations of coins that equal the same amount of money. Exchange a coin with other coins of different denominations. compare different amounts of money. Solve problems involving calculating change.	Chapter 13– Fractions. Number of Lessons – 13 (4 weeks) Recognise that fractions represent equal parts of a whole. Recognise, find, name and write $\frac{1}{2}$ and $\frac{1}{4}$. Recognise, find, name and write quarters. Recognise, find, name and write thirds. Understanding of fraction notation. Recognise pairs of fractions that add up to a whole. Recognise and write mixed numbers that are a multiple of $\frac{1}{2}$. Recognise and write mixed numbers that are a multiple of $\frac{1}{4}$. Find half of a set. Find one third or two thirds of a set. Find a fraction of a set where the denominator is 2, 3 or 4. Recognise, name and find a fraction of a quantity.	Continue Chapter 14 –Time Number of Lessons – 9 (1 weeks). Chapter 15 – Volume. Number of Lessons – 7 (3 weeks) Compare and order volume and record the results using >, < and =. Compare the volume of water using non-standard units of measurement, such as cups. Measure volume in litres, and determine whether an amount is more than, less than or equal to a litre. measure and compare volume in millilitres.
	Chapter 1 – Numbers to 100. Number of Lessons – 6 (2 weeks) Count to 100 in tens, ones, forwards and backwards. Know the place value in a 2-digit number. Compare number from 0-100 using > and <.	Chapter 4 – Multiplication and Division. Number of Lessons – 8 (3 weeks) Understand that grouping is a way of dividing and use the division (÷) and equals (=) signs. Understand that sharing is a way of dividing and discover the	Chapter 7 – Temperature. Number of Lessons – 2 (1 week) Read temperature in Celsius. Estimate temperature and read thermometers to confirm the estimate. Solve problems.	Chapter 11 – 2D Shapes. Number of Lessons – 10 (2 weeks – combine) Identify the number of sides on basic 2D shapes. Identify and count the vertices in a polygon. Identify lines of symmetry in 2D shapes.	Chapter 14 –Time. Number of Lessons – 9 (1 weeks) Tell time on the 12-hour clock in multiples of 5 minutes, including 'quarter past'. Tell time on the 12-hour clock in multiples of 5 minutes, including 'quarter past' and 'quarter to'.	

	Use number bonds. Count in steps of 2 and 10. Count in steps of 3 and 5.	relationship between division and multiplication. Division facts for 2-, 5- and 10-times table. Create multiplication and division families. Recognise odd and even numbers.		Sort 2D shapes based on their properties. Draw basic shapes on a grid. Recognise repeated patterns by shape, size or orientation. Describe direction and movement using vocabulary, such as 'left', 'right', 'up' and 'down'. Describe rotation.	Sequence daily events by time. draw hands on an analogue clock to show the correct time. Find the duration of time to 5 minutes, given the start time and the end time. find the end time, given the start time and the duration, in 30-minute and hourly intervals. Find the start time, given the end time and the duration in 5-minute and 1-hour intervals. Compare time in hours and minutes.	
	Chapter 2 – Addition and Subtraction. Number of Lessons – 14 (4 weeks). Add a 2-digit number without renaming. Add tens by recognising its relation to adding ones. Add a 2-digit number and tens without renaming. Add 1-digit to a 2-digit number with renaming. Add two 2-digit numbers, with renaming of ones. Subtract ones from a 2-digit number without renaming. Subtract tens by recognising its relationship to subtracting ones. Subtract tens from a 2-digit number without renaming. Add and subtract within 100. Subtract a 1-digit number from a 2-digit number with renaming. Subtract a 2-digit number from another 2-digit number with renaming. Add three 1-digit numbers. Solve problems.	Chapter 5 – Length. Number of Lessons – 8 (1 week – Combine) Measure length in metres. Measure length in centimetres. Order and compare length using > and <. Solve problems adding, subtracting, multiplying and dividing length.	Chapter 8 – Pictograms. Number of Lessons – 5 (2 week) Read and interpret a picture graph with a scale of 1:1, 1:2, 1:5 and 1:10.	Chapter 12– 3D Shapes. Number of Lessons – 6 (1 week - combine) Recognise 3D shapes by identifying their properties. Describe 3D shapes based on their properties, including the number of 'faces', 'vertices' and 'edges'. Describe the 2D shapes that form a 3D shape. Group 3D shapes by similar properties. Form 3D structures using multiple 3D shapes. Make and recognise patterns using 3D shapes.		Retrieval of previous learning.
			Chapter 9 – Word Problems. Number of Lessons – 4 (1 week) Solve word problems.			
	Chapter 1 – Numbers to 1000. Number of Lessons – 8 (2 weeks, 2 days)	Chapter 2 – Addition and Subtraction. Number of Lessons – 22 (1 week)	Chapter 5 – Length. Number of Lessons – 10 (2 weeks – combine)	Chapter 8 – Money. Number of Lessons – 10 (2 weeks)	Chapter 10 – Picture Graphs and Bar Graphs. Number of Lessons – 4 (1 week)	Chapter 12 – Angles. Number of Lessons – 6 (2 weeks) Identify angles.

Year 3	Count in hundreds to 1,000. Count in hundreds, tens and ones. Recognise the place value of each digit. Compare and order numbers to 1,000. Count from 0 in multiples of 50. Find 10 more or less. Find 1,000 more or less. Count in fours or eights.	Continued	Read and write length and height in metres and centimetres. Read and write length in millimetres. compare lengths. Solve problems.	Find a total amount of money by counting on. Show amounts of money using different combinations of coins. Add pounds and pence with and without renaming. Subtract pounds and pence with and without renaming. Compare amounts of money and find the difference by subtracting. Find the amount of change left from a given amount of money after a purchase. Solve problems involving money.	Present data using pictograms and bar graphs. Interpret data.	Identify right, obtuse and acute angles. Recognise angles as a property of a shape. Make turns, linking to right angles.
						Chapter 13 – Lines and Shapes. Number of Lessons – 5 (1 week) Identify perpendicular, horizontal, vertical and parallel lines. Draw a 2D shape. Describe 3D shapes.
	Chapter 2 – Addition and Subtraction. Number of Lessons – 22 (4 weeks) Understand the commutative law of addition and form a family of addition and subtraction facts. Add a 3-digit number to ones without renaming. Add a 3-digit number to multiples of 10 without renaming. Add a 3-digit number to multiples of 100 without renaming. Add two 3-digit numbers without renaming, using the column method of addition. Add a 3-digit number to ones with renaming. Add a 3-digit number to multiples of 10 with renaming. Add two 3-digit numbers with renaming the ones. Add two 3-digit numbers with renaming the tens. Add two 3-digit numbers with renaming the ones and tens.	Chapter 3 – Multiplication and Division. Number of Lessons – 15 (4 weeks) Know and learn the 3-times table. Know and learn the 4-times table. Recognise patterns in the 4- and 8-times table. Recall and use the 8 times table. Use the 3- and 4-times table for division. Understand the relationship between multiplication and division. Divide by 4 and 8. Solve problem.	Chapter 6 – Mass. Number of Lessons – 7 (2 week) Read weighing scales to determine mass in grams or kilograms. Solve problems.	Chapter 9 – Time. Number of Lessons – 17 (4 weeks) Tell time using a.m./p.m. Tell time to the minute. Tell time using vocabulary, such as o'clock, a.m./p.m., morning, afternoon, past and to. Tell and write the time from 12-hour and 24-hour clocks. Tell the time on an analogue clock using Roman numerals. Measure time in seconds. Measure and compare time in seconds using a stopwatch. Measure and compare time in seconds using an analogue clock. To find durations of time in minutes. find start or end times for events given the duration in minutes. Find durations of events in hours. Find start or end times for events given the duration in hours. convert minutes into seconds and vice versa.	Chapter 7 – Volume. Number of Lessons – 10 (2 week – combine) Measure volume in millilitres. Measure capacity in millilitres. Measure volume in millilitres and litres. Measure capacity in millilitres and litres. Read and write volume in litres and millilitres. Solve problems.	Chapter 14 – Perimeter of Figures. Number of Lessons – 9 (2 week) Measure the total length of 2D shapes. Measure and calculate the perimeter of 2D shapes.
		Chapter 4 – Further Multiplication and Division. Number of Lessons – 11 (2 weeks – combine) Multiply multiples of 10 by a 1-digit number. Multiply a 2-digit number by a 1-digit number without renaming.	Chapter 11 – Fractions. Number of Lessons – 14 (4 weeks) Count in tenths. Relate fractions to division. Recognise, find and write fractions of a discrete set of objects. Recognise and show equivalent fractions.			

	Subtract ones from a 3-digit number without renaming. Subtract multiples of 10 from a 3-digit number without renaming. Subtract multiples of 100 from a 3-digit number without renaming. Subtract two 3-digit numbers without renaming. Subtract from a 3-digit number with the renaming of 1 ten into 10 ones. Subtract two 3-digit numbers with the renaming of 1 hundred into 10 tens. Subtract two 3-digit numbers with renaming. Subtract from a multiple of 100 with renaming. Solve word problems.	Multiply a 2-digit number by a 1-digit number without renaming, using the standard algorithm. Multiply a 2-digit number by a 1-digit number with renaming, using the standard algorithm. Divide a 2-digit number by a 1-digit number without renaming. Divide a 2-digit number by a 1-digit number with renaming. Solve problems.	Find equivalent fractions. Compare and order fractions with the same and different denominators. Compare and order unit fractions. Add fractions with the same denominators within 1 whole. Subtract fractions with the same denominators within 1 whole. Solve problems.	Find the number of days in each month, year and leap year.		
Year 4	Chapter 1 – Numbers to 10,000. Number of Lessons – 13 (5 weeks) Count in hundreds and twenty-fives. Count in thousands, hundreds, tens and ones. Understand and recognise place value. Compare and order 4-digit numbers. Make number patterns. Round to the nearest 10, 100 or 1,000.	Chapter 2 – Addition and Subtraction Within 10,000. Number of Lessons – 16 (2 weeks) Continued	Chapter 4 – Further Multiplication. Number of Lessons – 19 (3 weeks) Continued	Chapter 6 – Fractions. Number of Lessons – 13 (2 week) Continued	Chapter 9 – Money. Number of Lessons – 8 (2 weeks) Write amounts of money as decimals. Compare money. Round money to the nearest £1 and £10. Estimate sums of money.	Chapter 11 – Area and Perimeter of Figures. Number of Lessons – 7 (1 week) Continued
	Chapter 2 – Addition and Subtraction Within 10,000. Number of Lessons – 16 (3 weeks) Find the sum of two numbers. Add two numbers without renaming. Add two numbers with renaming in the ones column.	Chapter 3 – Multiplication and Division. Number of Lessons – 19 (4 weeks) Count in sixes, sevens and nines. Multiply by 6, 7, 9, 11 and 12. Divide by 6, 7, 9, 11 and 12. Divide with a remainder.	Chapter 5 – Graphs. Number of Lessons – 5 (1 week) Draw and read pictograms and bar graphs. Draw and read line graphs.	Chapter 7 – Time. Number of Lessons – 6 (2 weeks) Tell the time on a 24-hour clock. Convert time in minutes to seconds. Convert time in hours to minutes. Convert months and weeks to days.	Chapter 10 – Mass, Volume and Length. Number of Lessons – 8 (2 weeks) Convert between metres and centimetres. Convert between metres and kilometres. Estimate lengths.	Chapter 12 – Geometry. Number of Lessons – 9 (2 weeks – combine) Identify right, acute and obtuse angles. Compare and order angles by size.

	Add two numbers with renaming in the tens and ones columns. Add two numbers with renaming in the hundreds, tens and ones columns. add using mental strategies. Find the difference between two numbers. Subtract without renaming. Subtract with renaming in the tens and ones. Subtract renaming in the hundreds, tens and ones column. Subtract using mental strategies. Solve word problems.				Convert between units of measure, volume and length. Compare and order measure.	Classify triangles and quadrilaterals. Identify lines of symmetry. Complete a symmetric figure. Identify properties of 2D shapes.
		Chapter 4 – Further Multiplication. Number of Lessons – 19 (2 weeks) Multiply by 0 and 1. Divide by 1. Understand commutativity. Multiply three numbers. Multiply with multiples of 10. Multiply 2-digit numbers without and with renaming. Multiply multiples of 100. Multiple 3-digit numbers with and without renaming. Divide 2-digit and 3-digit numbers with and without remainders. Solve word problems.	Chapter 6 – Fractions. Number of Lessons – 13 (2 weeks) Count in hundredths. Write mixed numbers on a number line. Find equivalent fractions. Simplify mixed numbers and improper fractions. Add fractions with the same denominator and record as mixed numbers. Record answers in the simplest form. Subtract a fraction from a whole number and mixed number.	Chapter 8 – Decimals. Number of Lessons – 9 (2 weeks) Recognise and write decimal equivalents of any number of tenths and hundredths. Divide 1-digit and 2-digit numbers by 100. Add or subtract tenths and hundredths from a decimal. Compare and order numbers with the same number of decimal places up to 2 decimal places. Round numbers with 1 decimal place to the nearest whole number. Recognise and write decimal equivalents $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$.	Chapter 11 – Area and Perimeter of Figures. Number of Lessons – 7 (1 week) Find the perimeter of a polygon. Find the area of rectilinear shapes by counting squares and half-squares. Compare the perimeter and area of rectilinear shapes. Find the area by using multiplication or counting squares.	Chapter 13 – Position and Movement. Number of Lessons – 5 (2 weeks) Describe position on a 2D grid and as co-ordinates in the first quadrant. Plot specified points and draw sides to complete a given polygon. Describe translations accurately. Understand a co-ordinate grid.
						Chapter 14 – Roman Numerals. Number of Lessons – 2 (1 week) Read and write Roman numerals to 100.
<u>Year 5</u>	Chapter 1 – Numbers to 10,000. Number of Lessons – 12 (3 weeks, 3 days) Read and represent numbers to 100,000. Represent and compare numbers to 100,00 using place value. Make and identify number patterns. Round numbers to the nearest 10,000 and 100,000.	Chapter 3 – Whole Numbers: Multiplication and Division. Number of Lessons – 19 (6 weeks). Find multiples and factors. Identify and name prime numbers. Determine prime numbers and composite numbers to 100. Create square and cube numbers. Multiply a single-digit number and 2-digit numbers by 10, 100 and 1000.	Chapter 5 – Graphs. Number of Lessons – 7 (2 weeks) Read tables and interpret meaning. Read and interpret line graphs. Create line graphs.	Chapter 6 – Fractions. Number of Lessons – 18 (1 week) Continued	Chapter 9 – Geometry. Number of Lessons – 12 (3 weeks) Know the names and qualities of acute, right, obtuse and reflex angles. Measure angles using a protractor. add angles. Understand that angles at a point on a straight line always sum to 180°. Understand that angles around a point always sum to 360°.	Chapter 11 – Measurements. Number of Lessons – 9 (3 weeks) Convert between centimetres and millimetres. Convert between centimetres and metres. Convert between kilometres and metres. Convert between grams and kilograms. Convert between litres and millilitres.

		Multiply 2-digit and 3-digit numbers by a single-digit. Multiply 4-digit numbers by a single-digit number with and without renaming. Multiply a 2-digit number by a 2-digit number. Multiply a 3-digit number by a 2-digit number. Find thousands, hundreds and tens in a 4-digit number. Divide 3-digit and 4-digit numbers by a single-digit number with and without remainders.			Draw lines and acute angles using a protractor with a high level of accuracy. Draw lines and obtuse angles using a protractor with a high level of accuracy. Describe the sides and angles of rectangles and squares. Investigate the angles of various quadrilaterals, including squares and rectangles. Solve problems involving angles in quadrilaterals. Solve problems involving angles, parallel lines and diagonals. Investigate regular polygons.	Convert between common imperial and metric units of length, mass and volume. Convert between common units of time. Read the temperature on a thermometer.
		Chapter 7 – Decimals. Number of Lessons – 15 (4 weeks) Read and write decimal numbers. Compare tenths and hundredth written as decimals. Compare and order decimals. Write fractions as decimals. Add and subtract decimals with one or two decimal places. Understand how decimals relate to money. Round decimals to the nearest whole number and tenth.			Chapter 10 – Position and Movement. Number of Lessons – 5 (2 weeks) Name and plot points. Describe the position of a shape following a translation and reflection. Reflect a shape more than once.	Chapter 12 –Area and Perimeter. Number of Lessons – 5 (2 weeks) Find the perimeter and area of rectangles and rectilinear shapes. Estimate the area of irregular shapes drawn on a grid.
	Chapter 2 – Whole Numbers: Addition and Subtraction. Number of Lessons – 10 (3 weeks)	Chapter 4 – Whole Numbers: Word Problems. Number of Lessons – 4 (1 week) Solve word problems involving the four operations.	Chapter 6 – Fractions. Number of Lessons – 18 (4 weeks) Divide whole numbers to create fractions.	Chapter 8 – Percentages. Number of Lessons – 3 (1 week) Express percentages as a proportion. Convert fractions with a denominator of 100 to decimals and percentages.		Chapter 13 –Volume. Number of Lessons – 5 (1 week - combine) Find the volume of solids and solids built from cubic units.

	Add numbers within 1,000,000 using rounding, counting on and columnar method. Subtract numbers by counting back, using columnar method and place value knowledge. Use number bonds.		Write improper fractions and mixed numbers. Find equivalent fractions. Compare and order fractions. Make number pairs with fractions with the same denominators. Add and subtract unlike fractions. Find a common denominator. Multiply fractions by whole numbers.	Convert values of an amount into percentages and decimals. Convert simple fractions into percentages and decimals.		Calculate the volume of cuboids as length $\times$ breadth $\times$ height. Calculate the capacity of a container in metric units.
						Chapter 14 – Roman Numerals. Number of Lessons – 2 (1 week) Read and write Roman numerals to 1000. Read and write years in Roman numerals.
Year 6	Chapter 1 – Numbers to 10,000,000. Number of Lessons - 5 (2 weeks, 3 days) Read and write numbers up to 10,000,000. Compare and order numbers up to 10,000,000. Round numbers up to 10,000,000 to the nearest million, hundred thousand and ten thousand.	Chapter 2 – Four Operations. Number of Lessons - 22 (1 week) Continued	Chapter 4 – Decimals. Number of Lessons – 14 (2 weeks) Continued	Chapter 8– Ratio. Number of Lessons – 10 (1 weeks) Express proportions as fractions, percentages or words. Express proportions using ratio. Use ratio to count and measure quantities. Compare quantities by writing ratio.	Chapter 11 – Volume. Number of Lessons – 5 (1 week) Find the volume of cubes and cuboids. Estimate and compare the volume.	Continued Chapter 8– Ratio. Number of Lessons – 10 (1 week) Continued
	Chapter 2 – Four Operations, Number of Lessons - 22 (4 weeks) Understand the order of operations. Multiply numbers up to 4 digits by a multiple of 10. Multiply numbers up to 3 digits by a 2-digit whole number. Multiply numbers up to 4 digits by a 2-digit whole number. Divide numbers up to 4 digits by a 2-digit whole number with and without remainder. Solve word problems involving the four operations. Identify common multiples and factors.	Chapter 3 – Fractions. Number of Lessons – 15 (4 weeks) Use common factors to simplify. Compare and order fractions, including those greater than 1. Add and subtract fractions with different denominators and mixed numbers. Multiply simple pairs of proper fractions. Divide fractions by whole numbers.	Chapter 5 – Measurement. Number of Lessons – 7 (2 weeks) Convert between centimetres and millimetres, centimetres and metres, metres and kilometre, miles and kilometres, grams and kilograms, litres and millilitres. and seconds, minutes and hours.	Chapter 9 – Algebra. Number of Lessons – 10 (2 weeks) Generate and describe number patterns. Express a missing number algebraically. Use simple formulae. Find numbers that satisfy an equation with two unknowns. Use knowledge of algebra to solve problems.	Chapter 15 – Negative Numbers. Number of Lessons – 2 (1 week) Use negative numbers in context and calculate intervals across zero. Use knowledge of negative numbers to solve problems.	Consolidation of Learning
		Chapter 4 – Decimals. Number of Lessons – 14 (2 weeks) Identify the value in decimals up to three decimal places.	Chapter 7– Percentages. Number of Lessons – 4 (2 weeks) Calculate percentages of a whole number and quantity.	Chapter 10 – Area & Perimeter. Number of Lessons – 4 (1 week) Recognise that shapes with the same areas can have different perimeters and vice versa.	Chapter 6 – Word Problems. Number of Lessons – 7 (2 weeks) Solve word problems involving the four operations.	

	Identify prime numbers.	Multiply and divide numbers by 10, 100 and 1000, giving answers up to three decimal places. Associate a fraction with division. Multiply 1-digit numbers, with up to two decimal places, by 1-digit whole numbers, with and without regrouping. Divide a 1-digit number with up to two decimal places by 1-digit whole numbers, with and without regrouping. Multiply 1-digit numbers with up to two decimal places by 2-digit whole numbers, with regrouping. Divide a 1-digit number with up to two decimal places by 2-digit whole numbers.	Calculate percentage increases and decreases. Use equivalences between simple fractions, decimals and percentages in different contexts.	Identify the base and height of a triangle. Calculate the area of triangles from their base and height. Calculate the area of parallelograms Use knowledge of area and perimeter to solve problems.		
Additional Maths Lessons PM		Chapter 12- Geometry. Number of Lessons – 12 (2 weeks) Recognise vertically opposite angles and find missing angles. Solve problems involving angles and ratio. Find unknown angles in a triangle. Find unknown angles in a quadrilateral. Solve problems involving angles in triangles, quadrilaterals and regular polygons. Name parts of circles and know that the diameter is twice the radius. Draw triangles using given dimensions and angles. Draw quadrilaterals using given dimensions.	Chapter 13 – Position and Movement. Number of Lessons – 10 (2 weeks) Use negative numbers in context and calculate intervals across 0. Describe positions on a full coordinate grid. Draw simple shapes on a coordinate plane. Describe the translation of shapes on a coordinate grid. Reflect shapes in a mirror line. Reflect shapes in the axes. Describe the translation of shapes on a coordinate grid and reflect simple shapes in the axes. Describe positions on a full coordinate grid using algebra.	Chapter 14 – Graphs and Averages. Number of Lessons – 11 (2 weeks) Calculate and interpret the mean as an average. Solve problems involving the mean. Read and interpret pie charts when they are split into equal parts, percentages and simple fractions. Interpret pie charts based on basic geometry. Interpret line graphs and use these to solve problems. Convert between miles and kilometres.		

		Solve problems involving similar shapes where the scale factor is known or can be found. Recognise and make nets for 3D shapes.				
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