# St Michael's C.E Primary School

## Mathematics Curriculum 2023-2024

Our curriculum intent at St Michael's is to provide a broad, exciting, and challenging curriculum of the highest quality for the children in our care; encouraging, motivating and ensuring all children develop a love of learning, in order to achieve their full potential.

Our curriculum will be implemented through knowledge-led experiences, enabling the children to increase their knowledge, learn and master new skills and therefore, deepen their understanding in a wide range of subjects.

The impact of this broad, exciting, and challenging curriculum is to inspire and motivate the young people in our care to become lifelong learners. We also provide a Christian community to enable all to value faith. All pupils are encouraged to be proud of their own culture, religion and language and show respect to those of others.

The focus in Maths is to improve the teaching and learning of Maths throughout the school to accelerate progress for all pupils.



# St Michael's CE Primary Maths Curriculum 2023-2024

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception						
Year 1	Number and Place Value	Number and Place Value	Geometry	Addition and Subtraction	Number and Place Value	Number Facts
rem r		Addition and Subtraction	Number and Place Value Addition and Subtraction	Number Facts	Number Facts	Shape, Space and Measure
	Number and Place Value	Number Facts	Subtraction	Geometry	Money	Multiplication and Division
Year 2	Addition and Subtraction	Addition and Subtraction Multiplication	Multiplication and Division	Addition and Subtraction	Fractions  Shape, Space and  Measure	Shape, Space and Measure
Year 3	Addition and Subtraction Number Facts	Addition and Subtraction	Geometry	Addition  Multiplication	Fractions	Fractions
	Number and Place Value Addition and Subtraction	Number Facts Other	Addition and Subtraction	Number Facts Subtraction		Shape, Space and Measure



	Addition and	Geometry	Number Facts	Multiplication and		Geometry
	Subtraction	J		, Division		
Year 4		Other		Number Facts	Fractions	Space, Shape and
Tear 4					rractions	Measure
	Number and Place	Number Facts	Multiplication and			Number Facts
	Value		Division			
	Number Facts			Geometry		Other
	Number and Place	Number Facts	Geometry		Number and Place	
y -	Value			NA los le les la	Value	CL C
Year 5				Multiplication and		Shape, Space and
	Money		Other	Division		Measure
	Number and Place	Multiplication and	Multiplication and		Fractions	
	Value	Division	Division			
	Addition and	Number and Place	Addition and			
	Subtraction	Value	Subtraction	Fractions and	Other Including SATs	Other
Year 6	Multiplication and	Coomotivi	Multiplication and		Cities including 3A13	Other
	Multiplication and	Geometry	Multiplication and	Percentages		
	Division		Division			
			Shape, Space and			
			Measure			



#### Early Years Foundation Stage -

#### **Mathematics**

A EYFS Mathematics Educational Programme must involve activities and experiences for children as follows —

Developing a strong grounding in number is essential so that all children develop the necessary building blocks to excel mathematically. Children should be able to count confidently, develop a deep understanding of the numbers to 10, the relationships between them and the patterns within those numbers. By providing frequent and varied opportunities to build and apply this understanding - such as using manipulatives, including small pebbles and tens frames for organising counting - children will develop a secure base of knowledge and vocabulary from which mastery of mathematics is built. In addition, it is important that the curriculum includes rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space, and measures. It is important that children develop positive attitudes and interests in mathematics, look for patterns and relationships, spot connections, 'have a go', talk to adults and peers about what they notice and not be afraid to make mistakes.

#### Early Learning Goal - Number -

Children at the expected level of development will: - Have a deep understanding of number to 10, including the composition of each number; Subitise (recognise quantities without counting) up to 5; Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.

### Early Learning Goal - Numerical Patterns -

Children at the expected level of development will: - Verbally count beyond 20, recognising the pattern of the counting system; Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity; Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.

#### National Curriculum - Purpose of Study

Mathematics is a creative and highly inter-connected discipline that has been developed over centuries, providing the solution to some of history's most intriguing problems. It is essential to everyday life, critical to science, technology, and engineering, and necessary for financial literacy and most forms of employment. A high-quality mathematics education therefore provides a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject.

#### Aims

The National Curriculum for Mathematics aims to ensure that all pupils:

• Become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.



- Reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language.
- Can solve problems by applying their mathematics to a variety of routine and nonroutine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

Mathematics is an interconnected subject in which pupils need to be able to move fluently between representations of mathematical ideas. The programmes of study are, by necessity, organised into apparently distinct domains, but pupils should make rich connections across mathematical ideas to develop fluency, mathematical reasoning, and competence in solving increasingly sophisticated problems. They should also apply their mathematical knowledge to science and other subjects. The expectation is that most pupils will move through the programmes of study at broadly the same pace. However, decisions about when to progress should always be based on the security of pupils' understanding and their readiness to progress to the next stage. Pupils who grasp concepts rapidly should be challenged through being offered rich and sophisticated problems before any acceleration through new content. Those who are not sufficiently fluent with earlier material should consolidate their understanding, including through additional practice, before moving on.

#### Spoken Language

The National Curriculum for Mathematics reflects the importance of spoken language in pupils' development across the whole curriculum – cognitively, socially, and linguistically. The quality and variety of language that pupils hear and speak are key factors in developing their mathematical vocabulary and presenting a mathematical justification, argument, or proof. They must be assisted in making their thinking clear to themselves as well as others and teachers should ensure that pupils build secure foundations by using discussion to probe and remedy their misconceptions.

### Programmes of Study

### Key Stage 1 - Years 1 and 2 -

The principal focus of Mathematics teaching in Key Stage 1 is to ensure that pupils develop confidence and mental fluency with whole numbers, counting and place value. This should involve working with numerals, words and the four operations, including with practical resources, for example, concrete objects and measuring tools. At this stage, pupils should develop their ability to recognise, describe, draw, compare and sort different shapes and use the related vocabulary. Teaching should also involve using a range of measures to describe and compare different quantities such as length, mass, capacity / volume, time and money. By the end of year 2, pupils should know the number bonds to 20 and be precise in using and understanding place value. An emphasis on practice at this early stage will aid fluency. Pupils should read and spell mathematical vocabulary, at a level consistent with their increasing word reading and spelling knowledge at key stage 1.

#### Lower Key Stage 2 - Years 3 and 4 -

The principal focus of Mathematics teaching in Lower Key Stage 2 is to ensure that pupils become increasingly fluent with whole numbers and the four operations, including number facts and the concept of place value. This should ensure that pupils develop efficient written and mental methods and perform calculations accurately with increasingly large whole numbers. At this stage, pupils should develop their ability to solve a range of problems, including with simple fractions and decimal place value. Teaching should also ensure that pupils draw with increasing accuracy and develop mathematical reasoning so they can analyse shapes and their properties, and confidently describe the relationships between them. It should ensure that they can use measuring instruments with accuracy and make connections between measure and number. By the end of year 4, pupils should have memorised their multiplication tables up to and including the 12-multiplication table and show precision and fluency in their work. Pupils should read and spell mathematical vocabulary correctly and confidently, using their growing word reading knowledge and their knowledge of spelling.



Upper Key Stage 2 - Years 5 and 6 -

The principal focus of Mathematics teaching in Upper Key Stage 2 is to ensure that pupils extend their understanding of the number system and place value to include larger integers. This should develop the connections that pupils make between multiplication and division with fractions, decimals, percentages, and ratio. At this stage, pupils should develop their ability to solve a wider range of problems, including increasingly complex properties of numbers and arithmetic, and problems demanding efficient written and mental methods of calculation. With this foundation in arithmetic, pupils are introduced to the language of algebra as a means for solving a variety of problems. Teaching in geometry and measures should consolidate and extend knowledge developed in number. Teaching should also ensure that pupils classify shapes with increasingly complex geometric properties and that they learn the vocabulary they need to describe them. By the end of year 6, pupils should be fluent in written methods for all four operations, including long multiplication and division, and in working with fractions, decimals, and percentages. Pupils should read, spell, and pronounce mathematical vocabulary correctly.



## Progression in Mathematics

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		NUMBER AND PLACE VA	ALUE - COUNTING		
count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.			Count backwards through zero to include negative numbers.	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.	Use negative numbers in context and calculate intervals across zero.
count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens.	Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward.	Count from 0 in multiples of 4, 8, 50 and 100.	Count in multiples of 6, 7, 9, 25 and 1 000.	Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000.	
Given a number, identify one more and one less.		Find 10 or 100 more or less than a given number.	Find 1 000 more or less than a given number.		
Use the language of - equal to, more than, less than (fewer), most, least.	Compare and order numbers from 0 up to 100; use <, > and = signs.	NUMBER AND PLACE VALUE - Compare and order numbers up to 1000.	COMPARING NUMBERS  Order and compare numbers beyond 1000.	Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers)	Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers)
			Compare numbers with the same number of decimal places up to two decimal places (copied from Fractions)		
	NUMBER ANI	D PLACE VALUE – IDENTIFYING, R	EPRESENTING & ESTIMATING NUM	IBERS	
Identify and represent numbers using objects and pictorial representations including the number line.	Identify, represent and estimate numbers using different representations, including the number line.	Identify, represent and estimate numbers using different representations.	Identify, represent and estimate numbers using different representations.		
	NUMBER AND	   PLACE VALUE - READING AND W	 /RITING NUMBERS (incl Roman Num	 nerals)	



Read and write numbers from 1 to 20 in numerals and words.	Read and write numbers to at least 100 in numerals and in words.	Read and write numbers up to 1 000 in numerals and in words.	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.	Read, write, order and compare numbers to at least 1000 000 and determine the value of each digit.	Read, write, order and compare numbers up to 10 00 000 and determine the value of each digit.
		Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.		Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	
	1	NUMBER AND PLACE VALUE - UNDI	ERSTANDING PLACE VALUE		L
	Recognise the place value of each digit in a two-digit number (tens, ones)	Recognise the place value of each digit in a three-digit number (hundreds, tens, ones)	Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)	Read, write, order and compare numbers to at least 1000 000 and determine the value of each digit.	Read, write, order and compare numbers up to 10 00 000 and determine the value of each digit.
			Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as units, tenths and hundredths.	Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.	Identify the value of each digito three decimal places and multiply and divide numbers to 10, 100 and 1000 where the answers are up to three decimal places.
		NUMBER AND PLACE VAI	LUE – ROUNDING		,
			Round any number to the nearest 10, 100 or 1000.	Round any number up to 1000 000 to the nearest 10, 100, 1000, 10 000 and 100 000.	Round any whole number to a required degree of accuracy.
			Round decimals with one decimal place to the nearest whole number.	Round decimals with two decimal places to the nearest whole number and to one decimal place.	Solve problems which require answers to be rounded to specified degrees of accuracy.



	Use place value and number facts to	Solve number problems and	Solve number and practical	Solve number problems and	Solve number and practical
	solve problems.	practical problems involving these	problems that involve all of the	practical problems that involve	problems that involve all of the
		ideas.	above and with increasingly large	all of the above.	above.
			positive numbers.		

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		NUMBER: ADDITION AND SUBTRA	CTION – NUMBER BONDS		
Represent and use number bonds and related subtraction facts within 20.	Recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100.				
	NUI	MBER: ADDITION AND SUBTRACTION	ON – MENTAL CALCULATIONS		
Add and subtract one-digit and two-digit numbers to 20, including zero.	Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:  * a two-digit number and ones  * a two-digit number and tens  * two two-digit numbers adding three one-digit numbers.	Add and subtract numbers mentally, including:  * a three-digit number and ones  * a three-digit number and tens  * a three-digit number and hundreds.		Add and subtract numbers mentally with increasingly large numbers.	Perform mental calculations, including with mixed operations and large numbers.
Read, write and interpret mathematical statements involving	Show that addition of two numbers can be done in any order				Use their knowledge of the order of operations to carry



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addition (+), subtraction (-) and	(commutative) and subtraction of one				out calculations involving the
equals (=) signs.	number from another cannot.				four operations.
	N	iumber: Addition and Subtrac	CTION – WRITTEN METHODS		
Read, write and interpret		Add and subtract numbers with up	Add and subtract numbers with up		
mathematical statements involving		to three digits, using formal written	to 4 digits using the formal written		
addition (+), subtraction (-) and		methods of columnar addition and	methods of columnar addition and		
equals (=) signs.		subtraction.	subtraction where appropriate.		
	NUMBER: ADDITION AN	ND SUBTRACTION - INVERSE OPER	RATIONS, ESTIMATING AND CHECK	ING ANSWERS.	
	Recognise and use the inverse	Estimate the answer to a	Estimate and use inverse operations	Use rounding to check answers to	Use estimation to check
	relationship between addition and	calculation and use inverse	to check answers to a calculation.	calculations and determine, in the	answers to calculations and
	subtraction and use this to check	operations to check answers.	to thete answers to a calculation.	context of a problem, levels of	determine, in the context of a
	calculations and solve missing number	operations to check answers.		'	problem, levels of accuracy.
	I -			accuracy.	problem, levels of accuracy.
	problems.	HIMPED ADDITION AND CURTOA	TION DOOR EN COLVING		
	N	UMBER: ADDITION AND SUBTRAC	IION – PROBLEM SOLVING.		
Solve one-step problems that involve	Solve problems with addition and	Solve problems, including missing	Solve addition and subtraction two-	Solve addition and subtraction	Solve addition and subtraction
addition and subtraction, using	subtraction:	number problems, using number	step problems in contexts, deciding	multi-step problems in contexts,	multi-step problems in context
concrete objects and pictorial	* using concrete objects and	facts, place value, and more	which operations and methods to	deciding which operations and	deciding which operations an
representations, and missing number	pictorial representations,	complex addition and subtraction.	use and why.	methods to use and why.	methods to use and why.
problems such as		complex addition and subtraction.	ase and wrig.	mentous to use and wing.	meanous to use und wing.
$7 = \square - 9$ .	including those involving				
/ = □ - 歼.	numbers, quantities and				
	measures				
	I at	i e	İ		
	* applying their increasing				
	* applying their increasing knowledge of mental and written				



Solve simple problems in a practical	Solve problems involving
context involving addition and	addition, subtraction,
subtraction of money of the same	multiplication and division.
unit, including giving change.	

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		NUMBER: MULTIPLICATION A	AND DIVISION FACTS		
Count in multiples of twos, fives and tens.	Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward.	Count from 0 in multiples of 4, 8, 50 and 100.	Count in multiples of 6, 7, 9, 25 and 1000.	Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000.	
	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.	Recall multiplication and division facts for multiplication tables up to 12 × 12.		
	NUM	 BER: MULTIPLICATION AND DIVIS	ION – MENTAL CALCULATIONS		
		Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.	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.	Multiply and divide numbers mentally drawing upon known facts.	Perform mental calculations, including with mixed operations and large numbers
	Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.		Recognise and use factor pairs and commutativity in mental calculations.	Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.	Associate a fraction with division and calculate decimo fraction equivalents (e.g. 0.375) for a simple fraction (e.g. <sup>3</sup> / <sub>8</sub> )



	Calculate mathematical statements for	Write and calculate mathematical	Multiply two-digit and three-digit	Multiply numbers up to 4 digits	Multiply multi-digit numbers up
	multiplication and division within the	statements for multiplication and	numbers by a one-digit number	by a one- or two-digit number	to 4 digits by a two-digit
	multiplication tables and write them	division using the multiplication	using formal written layout.	using a formal written method,	whole number using the formal
	using the multiplication (×), division	tables that they know, including for		including long multiplication for	written method of long
	(÷) and equals (=) signs.	two-digit numbers times one-digit		two-digit numbers.	multiplication.
		numbers, using mental and			
		progressing to formal written			
		methods.			
				Divide numbers up to 4 digits by	Divide numbers up to 4-digits
				a one-digit number using the	by a two-digit whole number
				formal written method of short	using the formal written
				division and interpret remainders	method of short division where
				appropriately for the context.	appropriate for the context
					divide numbers up to 4 digits
					by a two-digit whole number
					using the formal written
					method of long division, and
					interpret remainders as whole
					number remainders, fractions,
					or by rounding, as appropriate
					for the context.
					Use written division methods in
					cases where the answer has up
					to two decimal places.
	NUMBER. MIII TIPI IC	ATION & DIVISION _ MIII TIPI FS	FACTORS, PRIMES, SQUARE & CUE	RE NUMBERS	
	NOTIBER. FIGERIFEIC.	THION & DIVIDION - HOLIH ELS,	THE TORS, TRITIES, SQUARE & COL	JE HOLIDENS	
			Recognise and use factor pairs and	Identify multiples and factors,	Identify common factors,
			commutativity in mental	including finding all factor pairs	common multiples and prime
			calculations.	of a number, and common factors	numbers.
				of two numbers.	
				Know and use the vocabulary of	Use common factors to simplify
				prime numbers, prime factors and	fractions; use common
				composite (non-prime) numbers.	
				·	



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				Establish whether a number up to 100 is prime and recall prime numbers up to 19.	multiples to express fractions in the same denomination.
	NU	MBER: MULTIPLICATION & DIVIS	ION - ORDER OF OPERATIONS	Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)	Calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm³) and cubic metres (m³), and extending to other units such as mm³ and km³
					Use their knowledge of the order of operations to carry out calculations involving the four operations.
	NUMBER: MULTIPLICA	TION AND DIVISION – INVERSE O	PERATIONS, ESTIMATING & CHECK	ING ANSWERS	
		Estimate the answer to a calculation and use inverse operations to check answers.	Estimate and use inverse operations to check answers to a calculation.		use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy
	NU	JMBER: MULTIPLICATION AND DI	VISION – PROBLEM SOLVING		, , ,
Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations, and arrays with the support of the teacher.	Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.	Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which objects are connected to objects.	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.	Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares, and cubes.  Solve problems involving	Solve problems involving addition, subtraction, multiplication, and division.
		J		addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equal's sign.	



		Solve problems involving	Solve problems involving
		multiplication and division,	similar shapes where the scale
		including scaling by simple	factor is known or can be
		fractions and problems involving	found.
		simple rates.	

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		NUMBER: FRACTIONS – COUNTIN	IG IN FRACTIONAL STEPS		
	Pupils should count in fractions up to 10, starting from any number and using the1/2 and 2/4 equivalence on the number line (Non Statutory Guidance)	Count up and down in tenths.	Count up and down in hundredths.		
		NUMBER: FRACTIONS – RECO	   OGNISING FRACTIONS		
Recognise, find and name a half as one of two equal parts of an object, shape or quantity.	Recognise, find, name and write fractions $\frac{1}{3}$ , $\frac{1}{4}$ , $\frac{2}{4}$ , and $\frac{3}{4}$ , of a length, shape, set of objects or quantity.	Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.	Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.	Recognise and use thousandths and relate them to tenths, hundredths, and decimal equivalents.	
Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.		Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one — digit numbers or quantities by 10.  Recognise and use fractions as numbers: unit fractions and nonunit fractions with small denominators.			



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		NUMBER: FRACTIONS – COM	PARING FRACTIONS		
		Comment of the state of		Comment of Continu	Comment of Control
		Compare and order unit fractions,		Compare and order fractions	Compare and order fractions,
		and fractions with the same		whose denominators are all	including fractions >1
		denominators.		multiples of the same number.	
		NUMBER: FRACTIONS – COM	1PARING DECIMALS		
			Compare numbers with the same	Read, write, order, and compare	Identify the value of each digit
			number of decimal places up to two	numbers with up to three decimal	in numbers given to three
			decimal places.	places.	decimal places.
			,		,
		NUMBER: FRACTIONS – ROUNDIN	IG INCLUDING DECIMALS	<u> </u>	<u> </u>
		THE TRANSPORT OF THE PROPERTY	o mozodino dzeninies		
			Round decimals with one decimal	Round decimals with two decimal	Solve problems which require
			place to the nearest whole number.	places to the nearest whole	answers to be rounded to
				number and to one decimal	specified degrees of accuracy.
				place.	
	NUMBER: FRACTI	IONS – EQUIVALENCE (INCLUDING	FRACTIONS, DECIMALS & PERCEI	NTAGES)	
	Mysta simple fractions as 1 - 14	Recognise and show, using	Recognise and show, using	Identify, name, and write	Use common factors to simplify
	Write simple fractions e.g. $\frac{1}{2}$ of 6 =	diagrams, equivalent fractions with	diagrams, families of common	equivalent fractions of a given	fractions; use common
	3 and recognise the equivalence of $^2/_{\mu}$	small denominators.	equivalent fractions.	fraction, represented visually,	multiples to express fractions in
	1		,	including tenths and hundredths.	the same denomination.
	and $\frac{1}{2}$ .			,	
			Recognise and write decimal	Read and write decimal numbers	Associate a fraction with
			equivalents of any number of tenths		division and calculate decimal
			or hundredth.	as fractions (e.g. $0.71 = {}^{71}/{}_{100}$ )	fraction equivalents (e.g.
			or nanareant.		0.375) for a simple fraction
				December and weath areas differ	, , , , ,
				Recognise and use thousandths	(e.g. 3/8)
				and relate them to tenths,	ľ
				1 1 1 1 1 1 1 1	
				hundredths and decimal equivalents.	



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			Recognise and write decimal	Recognise the per cent symbol	Recall and use equivalences
			equivalents to $\frac{1}{4}$ ; $\frac{1}{2}$ ; $\frac{3}{4}$	(%) and understand that per cent	between simple fractions,
			equivalents to 7; 7; 7	relates to "number of parts per	decimals and percentages,
				hundred", and write percentages	including in different contexts.
					including in different contexts.
				as a fraction with denominator	
				100 as a decimal fraction.	
		NUMBER: FRCATIONS – ADDITI	ON AND SUBTRACTION		
		Add and subtract fractions with the	Add and subtract fractions with the	Add and subtract fractions with	Add and subtract fractions with
		same denominator within one	same denominator.	the same denominator and	different denominators and
		5, 1, 6,		multiples of the same number.	mixed numbers, using the
		whole (e.g. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$ )			concept of equivalent fractions.
				Recognise mixed numbers and	1
				improper fractions and convert	
				from one form to the other and	
				write mathematical statements >	
				1 as a mixed number (e.g. $\frac{2}{5}$ +	
				$\frac{1}{1} \frac{1}{1} = \frac{6}{1} \frac{1}{1} = \frac{1}{1} $	
				´5 ´5 ´5	
		NUMBER:FRACTIONS – MULTIF	CLICATION & DIVISION		
				Multiply proper fractions and	Multiply simple pairs of proper
				minad numbara bu urbala	for all the contract of the contract of
				mixed numbers by whole	fractions, writing the answer in
					T .
				numbers, supported by materials	its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{4}$
					its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} =$
				numbers, supported by materials	its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$
				numbers, supported by materials	its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ Multiply one-digit numbers
				numbers, supported by materials	its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$
				numbers, supported by materials	its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ Multiply one-digit numbers
				numbers, supported by materials	its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ Multiply one-digit numbers with up to two decimal places by whole numbers.
				numbers, supported by materials	its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ Multiply one-digit numbers with up to two decimal places by whole numbers.  Divide proper fractions by
				numbers, supported by materials	its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ Multiply one-digit numbers with up to two decimal places by whole numbers.
				numbers, supported by materials	its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{2}$ )  Multiply one-digit numbers with up to two decimal places by whole numbers.  Divide proper fractions by whole numbers (e.g. $\frac{1}{3} \div 2 = \frac{1}{2}$
				numbers, supported by materials	its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ Multiply one-digit numbers with up to two decimal places by whole numbers.  Divide proper fractions by
				numbers, supported by materials	its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{2}$ )  Multiply one-digit numbers with up to two decimal places by whole numbers.  Divide proper fractions by whole numbers (e.g. $\frac{1}{3} \div 2 = \frac{1}{2}$
				numbers, supported by materials	its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{2}$ )  Multiply one-digit numbers with up to two decimal places by whole numbers.  Divide proper fractions by whole numbers (e.g. $\frac{1}{3} \div 2 = \frac{1}{2}$
				numbers, supported by materials	its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{2}$ )  Multiply one-digit numbers with up to two decimal places by whole numbers.  Divide proper fractions by whole numbers (e.g. $\frac{1}{3} \div 2 = \frac{1}{2}$
	NUM	IBER: FRACTIONS – MULTIPLICATI	ON & DIVISION OF DECIMALS	numbers, supported by materials	its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{2}$ )  Multiply one-digit numbers with up to two decimal places by whole numbers.  Divide proper fractions by whole numbers (e.g. $\frac{1}{3} \div 2 = \frac{1}{2}$
	NUM	IBER: FRACTIONS – MULTIPLICATI	ON & DIVISION OF DECIMALS	numbers, supported by materials	its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{4}$ )  Multiply one-digit numbers with up to two decimal places by whole numbers.  Divide proper fractions by whole numbers (e.g. $\frac{1}{4} \div 2 = \frac{1}{4}$ )
	NUM	IBER: FRACTIONS – MULTIPLICATI	ON & DIVISION OF DECIMALS	numbers, supported by materials	its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{4}$ )  Multiply one-digit numbers with up to two decimal places by whole numbers.  Divide proper fractions by whole numbers (e.g. $\frac{1}{4} \div 2 = \frac{1}{4}$ )  Multiply one-digit numbers
	NUM	IBER: FRACTIONS – MULTIPLICATI	ON & DIVISION OF DECIMALS	numbers, supported by materials	its simplest form (e.g. \( \frac{1}{4} \times \frac{1}{2} = \)  Multiply one-digit numbers with up to two decimal places by whole numbers.  Divide proper fractions by whole numbers (e.g. \( \frac{1}{3} \div = 2 = \)  Multiply one-digit numbers with up to two decimal places
	NUM	IBER: FRACTIONS – MULTIPLICATI	ON & DIVISION OF DECIMALS	numbers, supported by materials	its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{4}$ )  Multiply one-digit numbers with up to two decimal places by whole numbers.  Divide proper fractions by whole numbers (e.g. $\frac{1}{4} \div 2 = \frac{1}{4}$ )  Multiply one-digit numbers



					C.E. Primary School
			Find the effect of dividing a one- or		Multiply and divide numbers
			two-digit number by 10 and 100,		by 10, 100 and 1000 where the
			identifying the value of the digits in		answers are up to three
			the answer as ones, tenths and		decimal places.
			hundredths.		,
					Identify the value of each digit
					to three decimal places and
					multiply and divide numbers by
					10, 100
					and 1000 where the answers
					are up to three decimal places.
					Associate a fraction with
					division and calculate decimal
					fraction equivalents (e.g.
					0.375) for a simple fraction
					(e.g. <sup>3</sup> / <sub>8</sub> )
					Use written division methods in
					cases where the answer has up
					to two decimal places.
		NUMBER: FRACTIONS – P	ROBLEM SOLVING		
	T				
		Solve problems that involve all of	Solve problems involving	Solve problems involving	
		the above.	increasingly harder fractions to	numbers up to three decimal	
			calculate quantities, and fractions	places.	
			to divide quantities, including non-		
			unit fractions where the answer is a		
			whole number.		
			Solve simple measure and money	Solve problems which require	
			problems involving fractions and	knowing percentage and decimal	
			decimals to two decimal places.	equivalents of 1/2, 1/3, 1/5, 2/5, 4/5	
				and those with a denominator of	
				a multiple of 10 or 25.	
	-				

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		RATIO AND PROI	PORTION		



	Statements only appear in Year	6 but should be connected to previo	us learning, particularly fractions, multiplication & divis	c.E. Fillidry School
	Statements only appear in Tear	To our should be connected to previo	us rearrang, paracularly fractions, manipacation & alvis	
				Solve problems involving the
				relative sizes of two quantities
				where missing values can be
				found by using integer
				multiplication and division
				facts.
				Solve problems involving the
				calculation of percentages. For
				example, of measures, and such
				as 15% of 360 and the use of
				percentages for comparison.
				Solve problems involving
				similar shapes where the scale
				factor is known or can be
				found.
				Solve problems involving
				unequal sharing and grouping
				using knowledge of fractions
				and multiples.

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
MEASUREMENT: COMPARING AND ESTIMATING							



				T -	C.E. Primary School
Compare, describe, and solve	Compare and order lengths, mass,		Estimate, compare and calculate	Calculate and compare the area	Calculate, estimate and
practical problems for:	volume/capacity and record the		different measures, including money	of squares and rectangles	compare volume of cubes and
* lengths and heights. For example	results using >, < and =		in pounds and pence.	including using standard units,	cuboids using standard units,
<ul> <li>long/short, longer/shorter,</li> </ul>				square centimetres (cm²) and	including centimetre cubed
tall/short, double/half.				square metres (m) and estimate	(cm³) and cubic metres (m³),
* mass/weightz. For example -				the area of irregular shapes.	and extending to other units
heavy/light, heavier than, lighter				and an one of an eganan entap eet	such as mm and km.
than.					
* Capacity and volume. For					
example - full/empty, more than,					
less than, half, half full, quarter.					
* Time. For example -quicker,					
slower, earlier, later.					
				F	
				Estimate volume (e.g. using 1 cm	
				blocks to build cubes and	
				cuboids) and capacity (e.g. using	
				water)	
Sequence events in chronological	Compare and sequence intervals of	Compare durations of events, for			
order using language. For example -	time.	example to calculate the time taken			
before and after, next, first, today,		by particular events or tasks.			
yesterday, tomorrow, morning,					
afternoon and evening.					
		Estimate and read time with			
		increasing accuracy to the nearest			
		minute; record and compare time in			
		terms of seconds, minutes, hours			
		and o'clock; use vocabulary such as			
		a.m./p.m., morning, afternoon,			
		noon, and midnight.			
	La	MEASUREMENT: MEASURING		Lucia	
Measure and begin to record the	Choose and use appropriate standard	Measure, compare, add, and	Estimate, compare and calculate	Use all four operations to solve	Solve problems involving the
following:	units to estimate and measure	subtract <b>lengths</b> (m/cm/mm); <b>mass</b>	different measures, including	problems involving measure (e.g.	calculation and conversion of
* lengths and heights	length/height in any direction	(kg/g); <b>volume/capacity</b> (l/ml)	money in pounds and pence.	length, mass, volume, money)	units of measure, using
* mass/weight	(m/cm); mass (kg/g); temperature			using decimal notation including	decimal notation up to three
	(°C); capacity (litres/ml) to the			scaling.	



					C.E. Primary School
* capacity and volume  * time (hours, minutes, seconds)	nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.				decimal places where appropriate.
		Measure the <b>perimeter</b> of simple 2- D shapes.	Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.	Recognise that shapes with the same areas can have different perimeters and vice versa.
Recognise and know the value of different denominations of <b>coins and notes</b> .	Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value.  Find different combinations of coins that equal the same amounts of money.	Add and subtract amounts of money to give change, using both £ and p in practical contexts.			
	Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.				
			Find the area of rectilinear shapes by counting squares.	Calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes.  Recognise and use square	Calculate the area of parallelograms and triangles.
				numbers and cube numbers, and the notation for squared $\binom{3}{i}$ and cubed $\binom{3}{i}$	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.  For example, mm³ and km³



					C.E. Primary School
					Recognise when it is possible to
					use formulae for area and
					volume of shapes.
					3 1
	<u> </u>	MEASUREMENT: TELLI	ING THE TIME		
Tell the time to the hour and half	Tell and write the time to five	Tell and write the time from an	Read, write, and convert time		
past the hour and draw the hands	minutes, including quarter past/to the	analogue clock, including using	between analogue and digital 12		
on a clock face to show these times.	hour and draw the hands on a clock	Roman numerals from I to XII, and	and 24-hour clocks.		
on a clock face to show arese ames.	face to show these times.	12-hour and 24-hour clocks.	arta 2 moar clocks.		
	′				
Recognise and use language relating	Know the number of minutes in an	Estimate and read			
to dates, including days of the week,	hour and the number of hours in a	time with increasing accuracy to			
weeks, months, and years.	day.	the nearest minute; record and			
		compare time in terms of seconds,			
		minutes, hours and o'clock; use			
		vocabulary such as a.m./p.m.,			
		morning, afternoon, noon, and			
		midnight.			
		9			
			Solve problems involving	Solve problems involving	
			converting from hours to minutes;	converting between units of time.	
			minutes to seconds; years to	9	
			months; weeks to days.		
			monutes, weeks to days.		
		MEASUREMENT: CC	ONVERTING		
	Know the number of minutes in an	Know the number of seconds in a	Convert between different units of	Convert between different units of	Use, read, write and convert
	hour and the number of hours in a	minute and the number of days in	measure (e.g. kilometre to metre;	metric measure (e.g. kilometre	between standard units,
	day.	each month, year and leap year.	hour to minute)	and metre; centimetre and metre;	converting measurements of
	,	7 9 1 9	•	centimetre and millimetre; gram	length, mass, volume and time
				and kilogram; litre and millilitre)	from a smaller unit of measure
				and knogram, the and millioner,	to a larger unit, and vice versa,
					using decimal notation to up to
					three decimal places.
					unee aeciniai piaces.
			Read, write and convert time	Solve problems involving	Solve problems involving the
			between analogue and digital 12	converting between units of time.	calculation and conversion of
			and 24-hour clocks.		units of measure, using decimal
					notation up to three decimal
					places where appropriate.



	Sc	Solve problems involving	Understand and use equivalences	Convert between miles and
	cc	converting from hours to minutes;	between metric units and	kilometres.
	m	ninutes to seconds; years to	common imperial units such as	
	m	nonths; weeks to days.	inches, pounds, and pints.	
		-		

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	GEOMETRY: I	PROPERTIES OF SHAPES – IDENTII	FYING SHAPES AND THEIR PROPER	RTIES	
Recognise and name common 2-D and 3-D shapes, including:  * 2-D shapes [e.g. rectangles (including squares), circles and triangles]  * 3-D shapes [e.g. cuboids (including cubes), pyramids and spheres].	Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.  Identify and describe the properties of 3-D shapes, including the number of edges, vertices, and faces.  Identify 2-D shapes on the surface of 3-D shapes. For example, a circle on a cylinder and a triangle on a pyramid.		Identify lines of symmetry in 2-D shapes presented in different orientations.	Identify 3-D shapes, including cubes and other cuboids, from 2-D representations.	Recognise, describe and build simple 3-D shapes, including making nets.  Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.
	GEOM	METRY: PROPERTIES OF SHAPES -			
		Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them.	Complete a simple symmetric figure with respect to a specific line of symmetry.	Draw given angles, and measure them in degrees (°)	Draw 2-D shapes using given dimensions and angles.



GEOMETRY: PROPERTIES OF SHAPES – COMPARING AND CLASSIFYING  Compare and sort common 2-D and 3-D shapes and everyday objects.  Compare and everyday objects.  Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.  Recognise, descrising simple 3-D shape making nets.  Compare and classify geometric shapes to deduce related facts and find missing lengths and angles.  The properties of rectangles to deduce related facts and find missing lengths and angles.  The properties of rectangles and sizes.	es, including
GEOMETRY: PROPERTIES OF SHAPES – COMPARING AND CLASSIFYING  Compare and sort common 2-D and 3-D shapes and everyday objects.  Compare and everyday objects.  Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.  Compare and classify geometric shapes their properties and sizes.  Compare and classify geometric shapes their properties and sizes.	
GEOMETRY: PROPERTIES OF SHAPES – COMPARING AND CLASSIFYING  Compare and sort common 2-D and 3-D shapes and everyday objects.  Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and missing lengths and angles.  Compare and classify geometric shapes to deduce related facts and find geometric shapes and sizes.	ssify
GEOMETRY: PROPERTIES OF SHAPES – COMPARING AND CLASSIFYING  Compare and sort common 2-D and 3-D shapes and everyday objects.  Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and missing lengths and angles.  Compare and classify geometric shapes to deduce related facts and find geometric shapes and sizes.	
Compare and sort common 2-D and 3-D shapes and everyday objects.  Shapes, including quadrilaterals and to deduce related facts and find geometric shapes triangles, based on their properties missing lengths and angles.  Compare and classify geometric shapes to deduce related facts and find geometric shapes and sizes.	ssify
Compare and sort common 2-D and 3-D shapes and everyday objects.  The properties of rectangles of rectangles and classify geometric shapes, including quadrilaterals and triangles, based on their properties missing lengths and angles.  The properties of rectangles of rectangles and classify geometric shapes and everyday objects.  The properties of rectangles of rectangles and classify geometric shapes and everyday objects.  The properties of rectangles of rectangles and classify geometric shapes and everyday objects.  The properties of rectangles and classify geometric shapes and everyday objects.  The properties of rectangles and classify geometric shapes and everyday objects.  The properties of rectangles and classify geometric shapes and everyday objects.  The properties of rectangles and classify geometric shapes are properties of rectangles and classify geometric shapes are properties and find geometric shapes are propert	ıssify
3-D shapes and everyday objects.  shapes, including quadrilaterals and to deduce related facts and find their properties and sizes.  shapes, including quadrilaterals and to deduce related facts and find their properties and sizes.  their properties and sizes.  find unknown and sizes.	ıssify
3-D shapes and everyday objects.  shapes, including quadrilaterals and to deduce related facts and find their properties and sizes.  shapes, including quadrilaterals and to deduce related facts and find their properties and sizes.  their properties and sizes.  find unknown and sizes.	
triangles, based on their properties missing lengths and angles. their properties and sizes.	based on
and sizes. find unknown and	
triangles, quadril	
regular polygons.	•
Distinguish between regular and	
irregular polygons based on	
reasoning about equal sides and	
angles.	
GEOMETRY: PROPERTIES OF SHAPES – ANGLES	
Recognise angles as a property of Know angles are measured in	
shape or a description of a turn.  degrees: estimate and compare	
acute, obtuse and reflex angles.	
Identify right angles, recognise that Identify acute and obtuse angles Identify: Recognise angles	where they
two right angles make a half-turn, and compare and order angles up * angles at a point and one meet at a point, a	are on a
these make these questions of a time. It a time wish to proless he size	
and four a complete turn identify whole turn (total 360) opposite and fin	
whether angles are greater than or * angles at a point on a angles.	
whether argues are greater attact or	
tess than a right unight.	
(total 180°)	



			C.L. I Illiary School
	Identify horizontal and vertical lines	$^*$ other multiples of $90^\circ$	
	and pairs of perpendicular and		
	parallel lines.		

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	GEOMETRY:	POSITION AND DIRECTION – PO	SITION, DIRECTION AND MOVEME	NT	
Describe position, direction and movement, including half, quarter and three-quarter turns.	Use mathematical vocabulary to describe position, direction and movement including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)		Describe positions on a 2-D grid as coordinates in the first quadrant.	Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.	Describe positions on the full coordinate grid (all four quadrants)
			Describe movements between positions as translations of a given unit to the left/right and up/down.		Draw and translate simple shapes on the coordinate plane and reflect them in the axes.
			Plot specified points and draw sides to complete a given polygon.		



GEOMETRY: POSITION AND DIRECTION - PATTERN				
Order and arrange combinations of				
mathematical objects in patterns and				
sequences.				
				,

		Year 3	Year 4	Year 5	Year 6		
STATISTICS – INTERPRETING, CONSTRUCTING AND PRESENTING DATA							
	Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.	Interpret and present data using bar charts, pictograms, and tables.	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.	Complete, read and interpret information in tables, including timetables.	Interpret and construct pie charts and line graphs and use these to solve problems.		
	Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.						
	Ask and answer questions about totalling and comparing categorical data.	STATISTICS – SOLVIN					



	Solve one-step and two-step	Solve comparison, sum, and	Solve comparison, sum, and	Calculate and interpret the
	questions. For example, 'How many	difference problems using	difference problems using	mean as an average.
	more?' and 'How many fewer?'	information presented in bar charts,	information presented in a line	
	using information presented in	pictograms, tables and other	graph.	
	scaled bar charts and pictograms	graphs.		
	and tables.	,		

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		ALGEBRA - EQU	IATIONS		
Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = □ -9	Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and <b>missing number</b> problems.	Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.		Use the properties of rectangles to deduce related facts and find missing lengths and angles.	Express missing number problems algebraically.
		Solve problems, including missing number problems, involving multiplication and division, including integer scaling.			
	Recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100.				Find pairs of numbers that satisfy number sentences involving two unknowns.
Represent and use number bonds and related subtraction facts within 20.					Enumerate all possibilities of combinations of two.
		ALGEBRA - FOR	MULAE		•



Perimeter can be expressed  algebraically as 2(a + b) where a  and b are the dimensions in the	nple formulae.
algebraically as 2(a + b) where a and b are the dimensions in the	
and b are the dimensions in the	
same unit.	
	nise when it is possible to
	<b>rmulae</b> for area and
volume	e of shapes
11 0500 to 050 US 1050	
ALGEBRA - SEQUENCES	
Sequence events in chronological Compare and sequence intervals of Generat	ate and describe linear
order using language such as: before   time.   number	r sequences.
and after, next, first, today,	
yesterday, tomorrow, morning,	
afternoon and evening.	
Order and green as combinations of	
Order and arrange combinations of	
mathematical objects in patterns.	

All programmes of study statements are included, and some appear twice (shown in italics.)

This occurs where:

- The statement has central relevance to more than one subcategory within a topic.
- The statement has central relevance to more than one mathematics topic.

This is done to reflect the aims of the curriculum that pupils should make rich connections across mathematical ideas to develop fluency, mathematical reasoning, and competence in solving increasingly sophisticated problems (Mathematics programmes of study: key stages 1 and 2 page 3).

