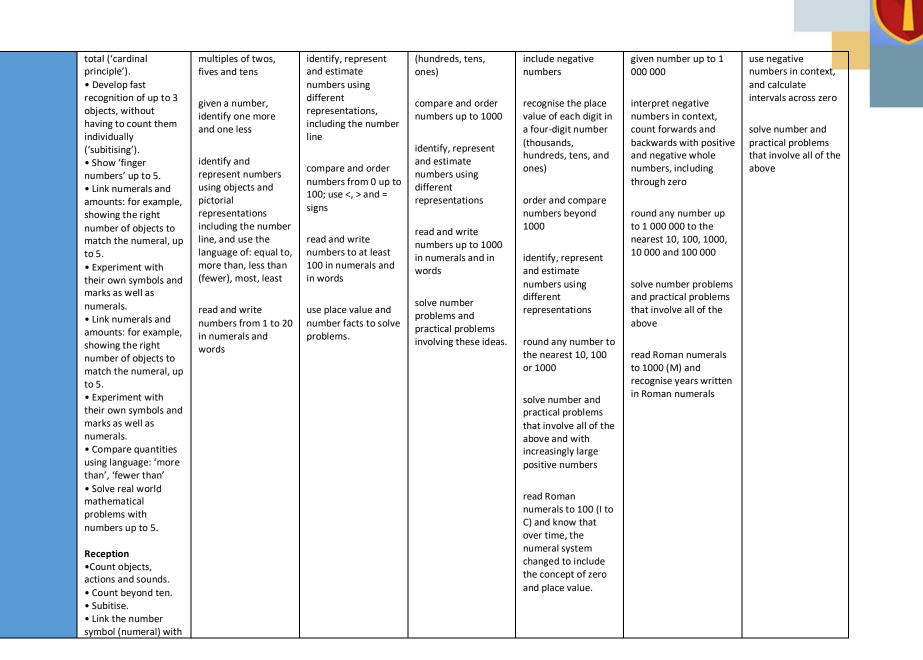
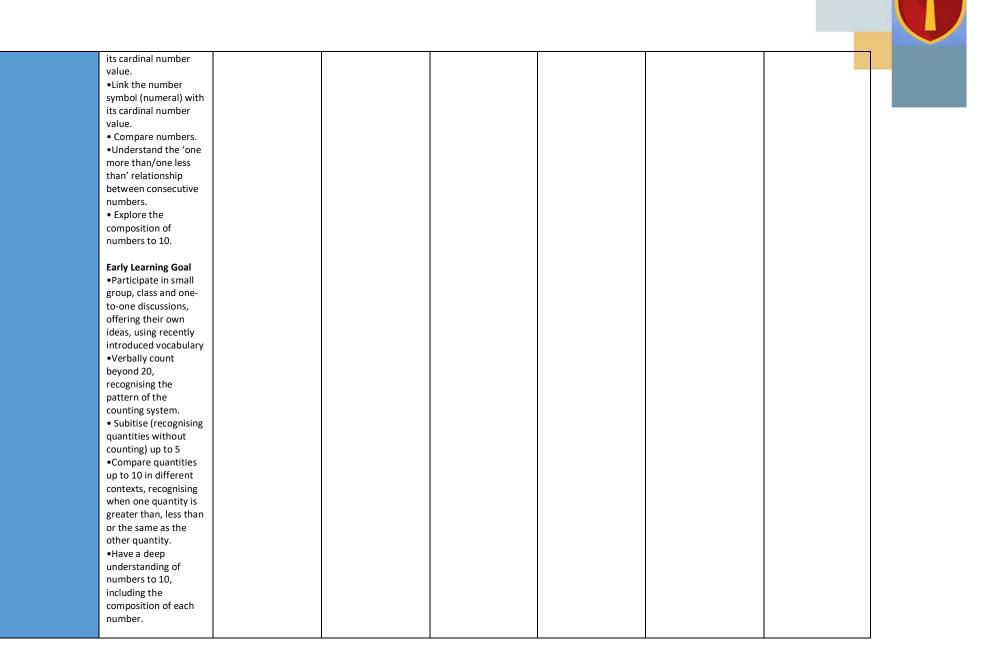
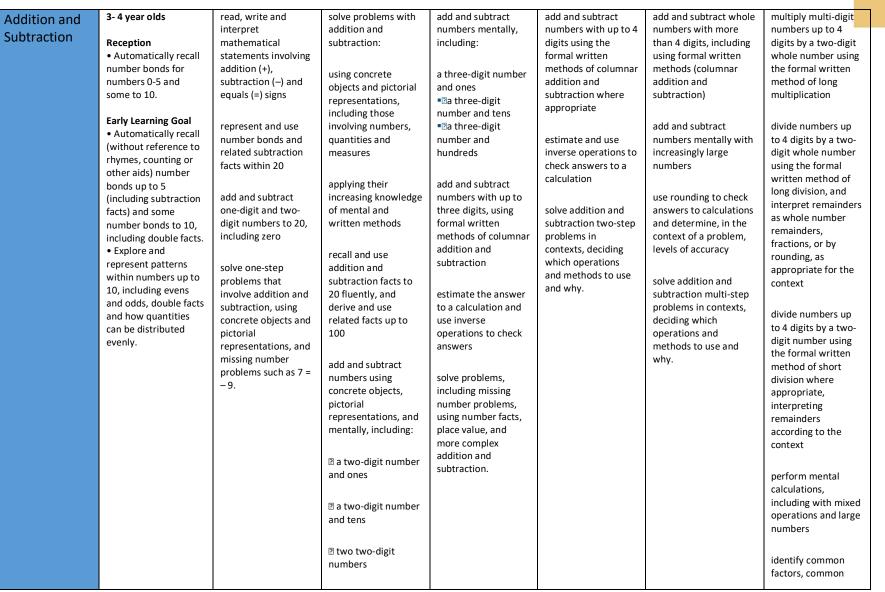


## St. Bede's Catholic Primary School Curriculum Progression for Maths

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Number and Place Value	EYFS Curriculum (vocab section in this box) 3-4 year olds • Use a wider range of vocabulary. • Understand 'why' questions, like: "why do you think the caterpillar is so fat?" Reception • Learn new vocabulary. • Use new vocabulary throughout the day. Early Learning Goal • Participate in small group, class and one- to-one discussions, offering their own ideas, using recently introduced vocabulary.	National Curriculum. Pupils should be taught to: 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]. 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		National Curriculum. Pupils should be taught to: 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. 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.		National Curriculum. Pupils should be taught to: 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. 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. By the end of year 6, pupils should be fluent in written methods for all four operations, including long multiplication and division	
	<ul> <li>3- 4 year olds</li> <li>Recite numbers past</li> <li>5.</li> <li>Say one number name for each item in order: 1, 2, 3, 4, 5.</li> <li>Know that the last number reached when counting a small set of objects tells you how many there are in</li> </ul>	Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number count, read and write numbers to 100 in numerals; count in	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward recognise the place value of each digit in a two-digit number (tens, ones)	Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number Precognise the place value of each digit in a three-digit number	Count in multiples of 6, 7, 9, 25 and 1000 find 1000 more or less than a given number count backwards through zero to	Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit count forwards or backwards in steps of powers of 10 for any	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit round any whole number to a required degree of accuracy

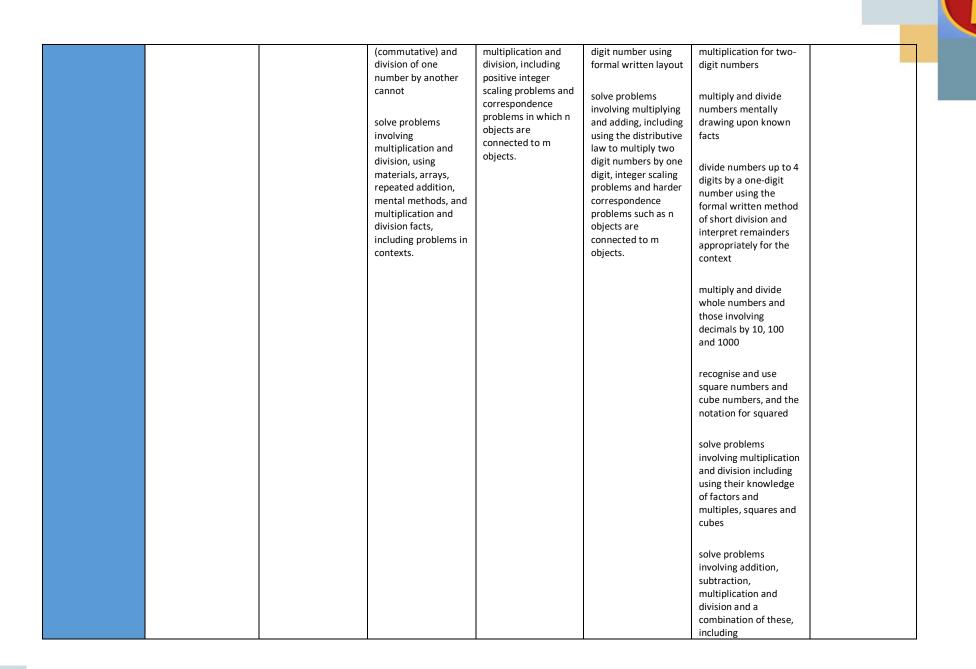








		adding three one- digit numbers show that addition of two numbers can be				multiples and prime numbers use their knowledge of the order of	1
		done in any order (commutative) and subtraction of one number from another cannot recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing				operations to carry out calculations involving the four operations solve addition and subtraction multi- step problems in contexts, deciding which operations and methods to use and why solve problems	
Multiplication and Division	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.	number problems. recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs show that multiplication of two numbers can be done in any order	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables 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 solve problems, including missing number problems, involving	recall multiplication and division facts for multiplication tables up to 12 × 12 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 recognise and use factor pairs and commutativity in mental calculations multiply two-digit and three-digit numbers by a one-	identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19 multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long	involving addition, subtraction, multiplication and division use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.	

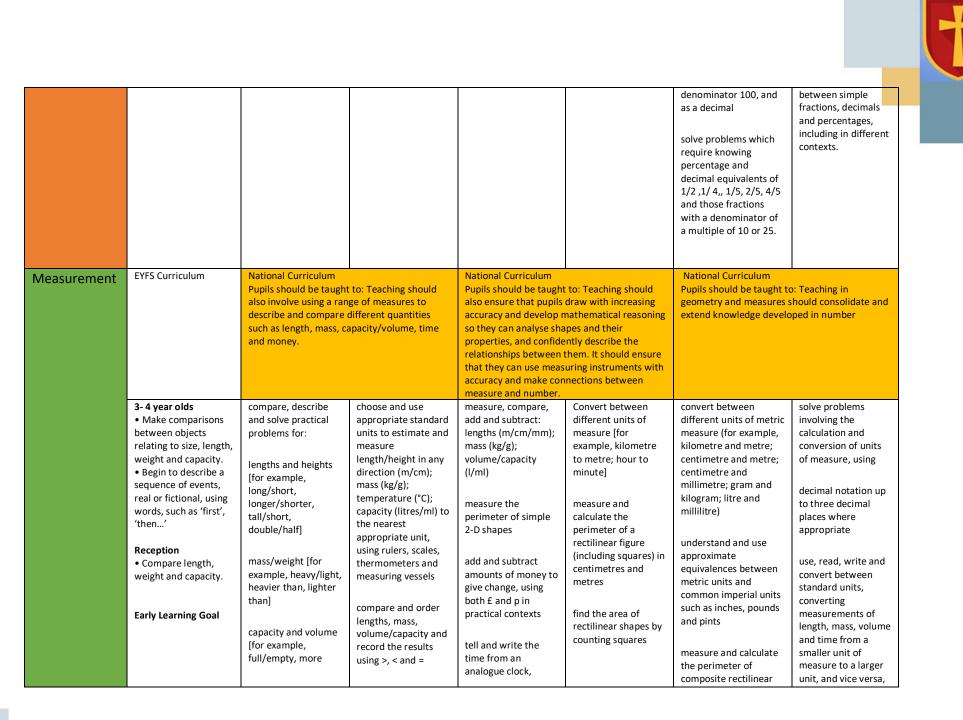


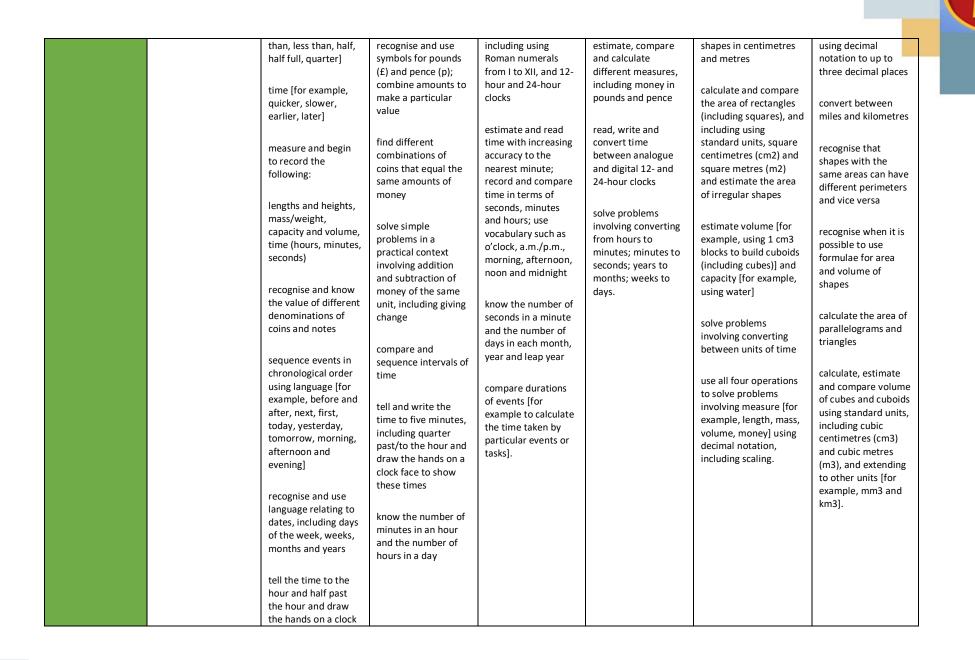
						understanding the meaning of the equals sign	
						solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.	
Fractions	EYFS Curriculum			National Curriculum Pupils should be taught pupils should develop t range of problems, incl fractions and decimal p	heir ability to solve a uding with simple	National Curriculum Pupils should be taught to pupils should be fluent in fractions, decimals and pe develop the connections between multiplication au fractions, decimals, perce	working with ercentages. Should that pupils make nd division with
		recognise, find and name a half as one of two equal parts of an object, shape or quantity recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.	Pupils should be taught to: recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity write simple fractions for example, 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2.	count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 recognise, find and write fractions of a discrete set of objects: unit fractions and non- unit fractions with small denominators recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators recognise and show, using diagrams, equivalent fractions	recognise and show, using diagrams, families of common equivalent fractions count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number	compare and order fractions whose denominators are all multiples of the same number identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, 2/5 + 4/5 = 6/5 = 1 1/5] add and subtract fractions with the same denominator and	use common factors to simplify fractions; use common multiples to express fractions in the same denomination compare and order fractions, including fractions, including fractions > 1 add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, 1/4 x 1/2 = 1/8]

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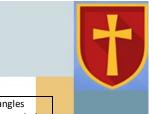


with small demoninators     add and subtract fractions with the same denominators     recognise and write decimal equivalents of any number of drany number of tents or hundredts     multiply proper fractions with the same denominators     multiply proper fractions with the same denominators     add and subtract fractions with the same denominators     multiply proper fractions with the same denominators     ascilate a fraction with division and cultate decimal fractions with the same denominators     multiply proper fractions with the same denominators     ascilate a fraction with division and cultate decimal fraction and write decimal equivalents to 1/2, 1/4 and 3/4     multiply oroper fractions with the same denominators     recognise and write decimal equivalents for example, 0.71 = for a simple fracton for example, 0.72 = 71/00]     ascilate a fraction with division and cultate decimal fraction equivalents for example, 0.72 = 72/100]     itemts of hundredts ascilate a fraction with division and cultate decimal for example, 0.72 = 72/100]     itemts of hundredts multiply on example, 0.72 = 72/100]     itemts of hundredts multiply on example, 0.72 = 72/100]     itemts of hundredts multiply and hundredts and recognise and use them to tents, hundredts and for example, 0.72 = 72/100]     itemts item multiply on example, 0.72 = 72/100]     itemts item multipl	 I				
same denominator     number     multiply proper fractions with the same denominator     number (for example, 1/3 + 2 = 1/3)     multiply proper fractions and mixed     multiply proper fractions and mixed     associate a fraction muthers, supported by tenths or hundredths       S/7+1/7=6/7     recognise and write same denominator     recognise and write derimal equivalents into whole unthers fractions, and fractions with the same denominator     recognise and write derimal equivalents into whole unthers fractions and fractions with the same denominator     recognise and write derimal equivalents into whole unthers fractions and fractions with the same denominator     recognise and write derimal equivalents into whole unthers fraction muthers as fraction fraction example, 3/3 if for example, 3/3 if					
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Image: some denominator within one whole [for example, \$/?+1/7=6/7     multiply proper fractions and mixed numbers by whole numbers as fractions [for example, 0.37]     associate a fraction with division and calculate decimal fraction equivalents [for example, 0.37]       Solve problems that involve all of the above.     frad the effect of dividing a one- or two-digit in the answer as ones, tenths and hundretths     read and write decimal recognise and write decimal equivalents [for example, 0.37]     if decrimal equivalents [for example, 0.37]       To difficult involve all of the above.     frad the effect of dividing a one- or two-digit in the answer as ones, tenths and hundretths     recognise and use the nearest whole number of the nearest whole number of the nearest whole number of the of solve options involving number of to decimal places     multiply one-digit numbers with up to two decimal places of the decimal places       Solve problems involving number up to two decimal places     solve problems involving number up to two decimal places     solve problems involving number up to two decimal places     solve problems involving number up to two decimal places     solve problems involving number up to two decimal places		add and subtract			
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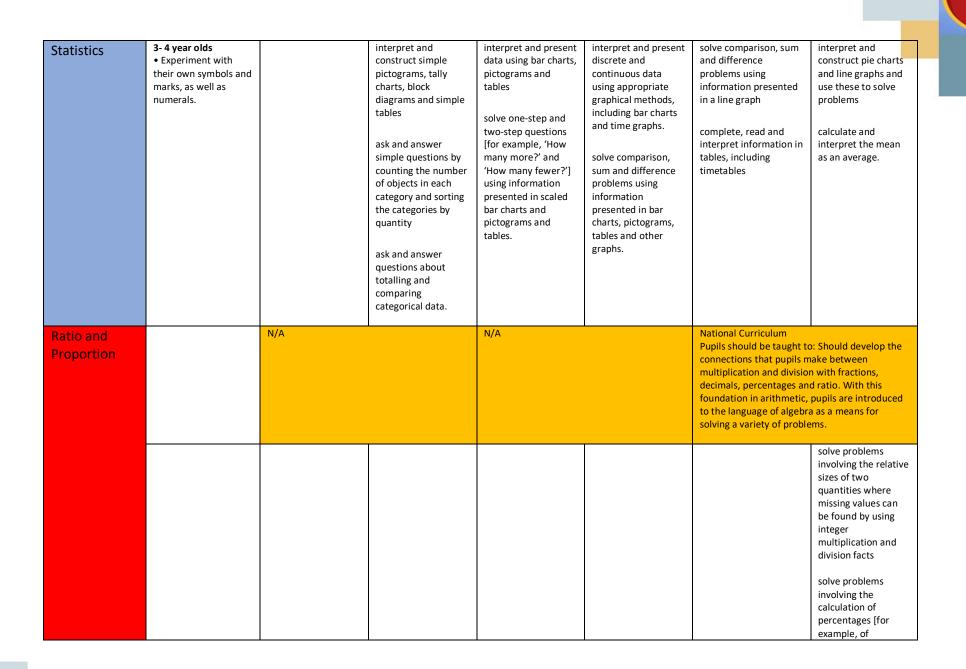




		face to show these times.					
Geometry – properties of shape	EYFS Curriculum	National Curriculum Pupils should be taugh pupils should develop t recognise, describe, dr. different shapes and us vocabulary.	their ability to aw, compare and sort ae the related	National Curriculum Pupils should be taught also ensure that pupils accuracy and develop r so they can analyse sha properties, and confide relationships between that they can use meas accuracy and make con measure and number.	draw with increasing nathematical reasoning pes and their ntly describe the them. It should ensure uring instruments with nections between	National Curriculum Pupils should be taught to geometry and measures s extend knowledge develo Teaching should also ensu shapes with increasingly o properties and that they they need to describe the	should consolidate and oped in number. ure that pupils classify complex geometric learn the vocabulary em.
	<ul> <li>3- 4 year olds <ul> <li>Talk about and</li> <li>explore 2D and 3D</li> <li>shapes (for example, circles, rectangles, triangles and cuboids)</li> <li>using informal and mathematical</li> <li>language: 'sides', 'corners', 'straight', 'flat', 'round'.</li> <li>Select shapes</li> <li>appropriately: flat</li> <li>surfaces for a building, a triangular pattern for a roof, etc.</li> <li>Combine shapes to make new ones – an arch, a bigger triangle, etc.</li> </ul> </li> <li>Reception <ul> <li>Select, rotate and manipulate shapes in order to develop spatial reasoning skills.</li> <li>Compose and decompose shapes so that children can recognise a shape can have other shapes</li> </ul> </li> </ul>	recognise and name common 2-D and 3-D shapes, including: 2-D shapes [for example, rectangles (including squares), circles and triangles] 3-D shapes [for example, cuboids (including cubes), pyramids and spheres].	Pupils should be taught to: 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] compare and sort common 2-D and 3-D shapes and everyday objects.	draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them recognise angles as a property of shape or a description of a turn identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle identify horizontal and vertical lines and pairs of	compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes identify acute and obtuse angles and compare and order angles up to two right angles by size identify lines of symmetry in 2-D shapes presented in different orientations complete a simple symmetric figure with respect to a specific line of symmetry.	identify 3-D shapes, including cubes and other cuboids, from 2-D representations know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles draw given angles, and measure them in degrees (o) identify: angles at a point and one whole turn (total 360 degrees), angles at a point on a straight line and 1/2 a turn (total 180 degrees), other multiples of 90 degrees. use the properties of rectangles to deduce related facts and find	draw 2-D shapes using given dimensions and angles recognise, describe and build simple 3-D shapes, including making nets compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius



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	within it, just as numbers can.			perpendicular and parallel lines.		missing lengths and angles	recognise angles where they meet at
	Early Learning Goal					distinguish between regular and irregular polygons based on reasoning about equal sides and angles. 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.	a point, are on a straight line, or are vertically opposite, and find missing angles.
Geometry – position and direction	<ul> <li>3- 4 year olds</li> <li>Understand position through words alone – for example, "The bag is under the table," – with no pointing.</li> <li>Describe a familiar route.</li> <li>Discuss routes and locations, using words like 'in front of' and 'behind'</li> <li>Reception</li> <li>Continue, copy and create repeating patterns.</li> <li>Draw information from a simple map.</li> <li>Early Learning Goal</li> </ul>	describe position, direction and movement, including whole, half, quarter and three quarter turns.	order and arrange combinations of mathematical objects in patterns and sequences 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 anticlockwise).		describe positions on a 2-D grid as coordinates in the first quadrant describe movements between positions as translations of a given unit to the left/right and up/down plot specified points and draw sides to complete a given polygon.	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) draw and translate simple shapes on the coordinate plane, and reflect them in the axes.





				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
				or call be found
				solve problems
				involving unequal
				sharing and grouping
				using knowledge of
				fractions and
				multiples.
Algebra				use simple formulae
				generate and
				describe linear
				number sequences
				express missing
				number problems
				algebraically
				find pairs of
				numbers that satisfy
				an equation with
				two unknowns
				enumerate
				possibilities of
				combinations of two
				variables.