

	Nursery	Reception	Year 1	Year 2	End of Key Stage 1
	Begins to say numbers in order, some of which are in the right order (ordinality).	Verbally count beyond 20, recognising the pattern of the counting system.	Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.	Count in steps of 2, 3 and 5 from – and in tens from any number, forward and backward.	The principal focus of mathematics teaching in key stage 1 is to ensure that pupils develop confidence and mental fluency with whole
	In everyday situations, takes or gives two or three objects from a	Subitise (recognise quantities without counting) up to 5.	Count numbers to 100 in numerals; count in multiples of twos, fives and tens.	Read and write numbers to at least 100 in numerals and in words.	numbers, counting and place value.
Value	group. Beginning to notice	Compare quantities up to 10 in different contexts,	Identify and represent numbers using objects and	Identify, represent and estimate numbers using	This should involve working with numerals, words and the four operations, including with
	numerals (number symbols).	recognising when one quantity is greater than, less than or the same as	pictorial representation. Read and write numbers to	different representations, including the number line.	practical resources [for example, concrete objects and measuring tools].
Place	Beginning to count on their fingers.	another quantity.	100 in numerals. Read and write numbers	Recognise the place value of each digit in a two-digit number (tens, ones).	At this stage, pupils should develop their ability to
	Joins in and anticipates repeated sound and action patterns.		from 1 to 20 in numerals and words.	Compare and order numbers from 0 up to 100;	recognise, describe, draw, compare and sort different shapes and use the related
	Is interested in what		Given a number, identify one more and one less.	use <,> and = signs.	vocabulary.
	happens next using the pattern of everyday routines.			Use place value and number facts to solve problems.	Teaching should also involve using a range of measures to describe and compare



Progression of Maths Knowledge Skills and Concepts

	in numbers of things, using words like more, lots or 'same'.
Addition and subtraction	

Beginning to compare

and recognise changes

Have a deep understanding of numbers to 10, including the composition of each number.

Automatically recall (without reference to rhymes, counting or other aids) number bonds/subtraction facts to 5 and some number bonds to 10, including double facts.

Read, write and interpret mathematical statements involving addition (+), subtraction (-), and equals (=) signs.

Represent and use number bonds and related subtraction facts within 20.

Add and subtract one-digit and two-digit numbers to 20, including zero.

Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as: 7 = ___ - 9.

Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.

Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.

Recognise and us the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.

Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:

- -A two-digit number and ones.
- -A two-digit number and tens

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.



	-Two two-digit numbersAdding three one-digit numbers.	
	Solve problems with addition and subtraction: -Using concrete objects and pictorial representations, including those involving numbers, quantities and measure.	
	Applying their increasing knowledge of mental and written methods.	



Multiplication and division	patterns up to 10,	within numbers including evens division, by answer usi objects, pic representa	nultiplication and calculation the ng concrete ctorial tions and arrays pport of the	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers. Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs. Solve problems involving	
			:		



			multiplication and division facts, including problems in contexts.	
Fractions	Explore and represent how quantities can be distributed equally.	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.	Recognise, find, name and write fractions 1/3, ¼, 2/3 and ¾ of a length, shape, set of objects or quantity. Recognise the equivalents of 2/4 and ½. Write simple fractions for example, ½ of 6 = 3.	
Algebra		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 solve missing number problems.	Note – although algebraic notation is not introduced until Y6, algebraic thinking starts much earlier as exemplified by the 'missing number' objectives from Y1/2/3.



	Evalores differences in	December when one	Compare describe and	Choose and use	
	Explores differences in	Recognise when one	Compare, describe and		
	size, length, weight and	quantity is greater than,	solve practical problems for:	appropriate standard units	
	capacity.	less than or the same as	-Lengths and heights (for	to estimate and measure	
		the other quantity.	example, long / short,	length / height in any	
	Beginning to understand		longer / shorter, tall / short,	direction (m / cm); mass	
	some talk about		double / half);	(kg / g); temperature (°c);	
	immediate past and		-Mass / weight (for	capacity (litres / ml) to the	
	future.		example, heavy / light,	nearest appropriate unit,	
			heavier than, lighter than);	using rulers, scales,	
	Beginning to anticipate		-Capacity and volume (for	thermometers and	
	times of the day such as		example, full / empty, more	measuring vessels.	
l t	mealtimes or home time.		than, less than, half, half	aaag .aaa	
<u></u>	mediames of fields and		full, quarter);	Compare and order	
<u>L</u>			-Time (for example	lengths, mass, volume /	
<u>e</u>			quicker, slower, earlier,	capacity and record the	
Ŋ			1 ·		
98			later).	results using <, > and = .	
Measurement			Measure and begin to	Recognise and use	
≥					
			record the following:	symbols for pounds (£)	
			-Lengths and heights;	and pence (p); combine	
			-Mass / weight;	amounts to make a	
			-Capacity and volume;	particular value.	
			-Time (hours, minutes,		
			seconds).	Find different	
				combinations of coins that	
			Recognise and know the	equal the same amounts	
			value of different	of money.	
			denominations of coins and		
			notes.		



Community in	Oakaa alaan la aanklamaa la
Sequence events in	·
chronological order	using a practical context
language (for exam	ple, involving addition and
before and after, ne	xt, first, subtraction of money of
today, yesterday, to	morrow, the same unit, including
morning, afternoon	and giving change.
evening).	
	Compare and sequence
Recognise and use	intervals of time.
language relating to	dates,
including days of th	e week, Tell and write the time to
weeks, months and	years. five minutes, including
	quarter past/to the hour
Tell the time to the	
half past the hour a	nd draw clock face to show these
the hands on a cloc	
show these times.	
	Know the number of
	minutes in an hour and the
	number of hours in a day.
	Hulliber of Hours III a day.



	01	10	D	I de la Cife e and de la cilla e de la	
	Chooses puzzle pieces	Compare quantities up to	Recognise and name	Identify and describe the	
	and tries to fit them in.	10 in different contexts.	common 2D shapes (for	properties of 2D shapes,	
		E.g. how many sides a	example, rectangles	including the number of	
	Recognises that two	shape has.	including squares, circles	sides and line of symmetry	
	objects have the same		and triangles)	in a vertical line.	
	shape.				
	S. Iapo.		Recognise and name	Identify 2D shapes on the	
	Makes simple		common 3D shapes (for	surface of 3D shapes, (for	
	constructions.		examples cuboids including	example a circle on a	
	Constituctions.		cubes, pyramids and	cylinder and a triangle on	
			spheres).	a pyramid).	
Geometry			.		
l 🖶			Describe position, direction	Compare and sort	
=			and movement, including	common 2D shapes and	
5			whole, half, quarter and	everyday objects.	
œ			three-quarter turn.		
0				Recognise and name	
				common 3D shapes (for	
				example, cuboids	
				including cubes, pyramids	
				and spheres).	
				Compare and sort	
				common 3D shapes and	
				•	
				everyday objects.	
				Order and arrange	
				Order and arrange	
				combinations of	



mathematical objects in patterns and sequences.	
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 anti-	
clockwise).	
Interpret and construct	
simple pictograms, tally	
charts, block diagrams	
and simple tables.	
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.	



	Year 3	Year 4	Year 5	Year 6	End of Key Stage 2
	Count from 0 in multiples	Count in multiples of 6,	Count forwards or	Read, write, (order nad	The principal focus of
	of 4, 8, 50 and 100; find	7, 9, 25 and 1000.	backwards in steps of	compare) numbers up to	mathematics teaching in lower
	10 or 100 more or less		powers of 10 for any given	10 000 000 and determine	key stage 2 is to ensure that
	than a given number.	Count backwards	number up to 1 000 000.	the value of each digit.	pupils become increasingly
		through zero to include			fluent with whole numbers and
	Identify, represent and	negative numbers.	Count forwards and	(Read, Write) order and	the four operations, including
	estimate numbers using		backwards with positive and	compare numbers up to	number facts and the concept
	different representations.	Identify, represent and	negative whole numbers,	10,000,000 and determine	of place value.
	Dood and write numbers	estimate numbers using	including through zero.	the value of each digit.	This should answer that numils
	Read and write numbers up to 1000 in numerals	different representations.	Read, write, (order and	Round any whole number	This should ensure that pupils develop efficient written and
<u>e</u>	and in words.	Read Roman Numerals	compare) numbers to at	to a required defree of	mental methods and perform
∺	and in words.	to 100 (I to C) and know	least 1,000,000 and	accuracy.	calculations accurately with
Value	Recognise the place	that over time, the	determine the value of each	accuracy.	increasingly large whole
	value of each digit in a	numeral system changed	digit.	Use negative numbers in	numbers.
ည္က	three-digit number	to include the concept of		context, and calculate	
Place	(hundreds, tens, ones).	zero and place value.	Read Roman Numerals to	intervals across zero.	At this stage, pupils should
			1000 (M) and recognise		develop their ability to solve a
	Compare and order	Find 1000 more or less	years written in Roman	Solve number and	range of problems, including
	numbers up to 1000.	than a given number.	numerals.	practical problems that	with simple fractions and
			(5 1 1 1 1	involve all of the above.	decimal place value.
	Solve number problems	Recognise the place	(Read, Write) order and		Tanahina ahawlalala ahaa
	and practical problems	value of each digit in a	compare numbers to at		Teaching should also ensure
	involving these ideas.	four-digit number	least 1,000,000 and determine the value of each		that pupils draw with
	Estimate the answer to a	(thousands, hundreds, tens, one).	digit.		increasing accuracy and develop mathematical
	calculation and use	10113, 0116 <i>]</i> .	aigit.		reasoning so they can analyse
	inverse operations to	Order and compare	Interpret negative numbers		shapes and their properties,



	check answers.	numbers beyond 1000. Round any number to the nearest 10, 100 or 1000.	in context.		and confidently describe the relationships between them. It should ensure that they can use measuring instruments with accuracy and make
Addition and subtraction	Add and subtract numbers mentally, including: -A three-digit number and onesA three-digit number and tensA three-digit number and hundreds. Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Solve problems, including missing number facts, place value, and more complex addition and subtraction.	Estimate and use inverse operations to check answers to a calculation. Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.	Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. Add nad subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction). Add and subtract numbers mentally with increasingly large numbers. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	Perform mental calculations, including with mixed operations and large numbers. Use htier knowledge of the order of 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.	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. 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.



Solve problems involving	This should develop the
addition, subtraction,	connections that pupils make
multiplication and division	between multiplication and
and a combination of these,	division with fractions,
including understanding the	decimals, percentages and
meaning of the equals sign.	ratio.



Progression of Maths Knowledge Skills and Concepts

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 multiplication and division, including positive integer scaling problems, and correspondence problems which n objects are connected to m objects.

Recall multiplication and division facts for multiplication tables up to 12 x 12.

Use place value, known and derived facts to multiply and divide mentally, including multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers.

Recognise and use factor pairs and commutativity in mental calculations.

Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.

Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, 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 (non-prime) numbers.

Establish whether a number up to 100 is prime and recall prime numbers up to 19 Recognise and use square numbers and cube numers, and the notation for squared (2) and cubed (3).

Multiply numbers up to 4 digits by a one- or two- digit number using a formal written method, including long multiplication for two-digit numbers.

Identify common factors, common multiples and prime numberse.

Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.

Multiply multi-digit numbers up to 4 digits by a two-diti whole number using the formal written method of long multiplication.

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.

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.



Progression of Maths Knowledge Skills and Concepts

integer scaling problems and harder correspondence problems such as n objects are connected to m objects. Multiply and divide numbers mentally drawing upon known facts.

Divide numbers up to 4 digits by a one-digit number using the formal witten method of short division and interpret remainders appropriately for the context.

Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.

Solve problems involving multiplication and division including using their knowledge of factors and multoples, squares and cubes.

Solve problems involving multiplication and division, including scaling by simple fraction

Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.

Perform mental calculations, including with mixed operations and large numbers.

Solve problems involving addition, subtraction, multiplication and division.

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.



	and problems involving	
	rates.	



Progression of Maths Knowledge Skills and Concepts

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 with small denominators.

Compare and order unit fractions, and fractions with the same

Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.

Recognise and show, using diagrams, families of common equivalent fractions.

Add and subtract fractions with the same denominator.

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.

Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.

Recognised mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number (for example,

$$\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$$
).

Compare and order fractions whose denominators are all multiples of the same number.

Add and subtract ractions with the same denominator and denominators that are multiples of the same number.

Multiply proper fractions and mixed numbers by

Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.

Compare and order 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,

$$\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$$
).

Divide proper fractions by whole numbers (for example,

$$\frac{1}{3} \div 2 = \frac{1}{6}$$
).



denominators.	whole numbers, supported by materials and diagrams.	
Add and subtract fractions with the same denominator within one whole.	by materials and diagrams.	
Solve problems that involve all of the above.		



		<u></u>	<u>, </u>	
	Recognise and write	Read and write decimal	Identify the value of each	
Decimals	decimal equivalents of any number of tenths or	numbers as fractions (for	digit in numbers given to three decimal places.	
	hundredths.	example, $0.71 = \frac{71}{100}$).	tiffee decimal places.	
	Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$.	Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalent.	Multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places.	
	Round decimals with one decimal place to the nearest whole number.	Round decimals with two decimal places to the nearest whole number and	Multiply one-digit numbers with up to two decimal places by whole numbers.	
S S	Compare numbers with	to one decimal place.	Use written division	
ػ	the same number of	Read, write, order and	methods in cases where	
	decimal places up to two decimal places.	compare numbers with up to three decimal places.	the answer has up to two decimal places.	
	Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of	Solvep roblems involving numbers up to three decimal places.	Solvep roblems which require answers to be rounded to specified degrees of accuracy.	
	the digits in the answer as ones, tenths and hundredths.			



decimals & intages	Solve simple measure and money problems involving fractions and decimals to two decimal places.	Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal.	Associate a fraction with division and calculate decimal fraction equivalents (for example, 0.375) for a simple fraction (for example, $\frac{3}{8}$).	
Fractions, o		Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25.	Recall and use equivalences between simple fractions, decimals and percentages including in different contexts.	



		 Colve problems	
		Solve problems	
		involving the relative sizes of two quantities	
		where missing values	
		can be found by using	
		integer multiplication	
		and dvision facts.	
		and dyision facts.	
_		Solve problems	
Proportion		involving the calculation	
T		of percentages (for	
<u>Q</u>		example, of measure,	
2		and such as 15% of	
		360) and the use of	
≪		percentages for	
. <u>0</u>		comparison.	
Ratio &			
<u>~</u>		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.	
	Solve problems including missing number problems.		Use simple formulae. Generate and describe linear number sequences.	Note – although algebraic notation is not introduced until Y6, algebraic thinkin starts much earlier as exemplified by the 'missing number'
Algebra			Express missing number problems algebraically.	objectives from Y1 / 2 / 3.
Alg			Find pairs of numbers that satisfy an equation with two unknowns.	
			Enumerate possibilities of combinations of two variables.	



Progression of Maths Knowledge Skills and Concepts

Measure, compare, add and subtract: lengths (m / cm / mm); mass (kg / g); volume / capacity (l / ml).

Add and subtract amounts of money to give change, using both £ and p in practical contexts.

Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour to 24-hour clocks.

Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m. / p.m., morning, afternoon, noon and midnight.

Convert between different unites of measure (for example, kilometre to metre; hour to minute).

Estimate, compare and calculate different measures, including money in pounds and pence.

Read, write and convert time between analogue and digital 12- and 24hour clocks.

Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.

Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres. Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millitre).

Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.

Use all foud operations to solve problems involving measure (for example, length, mass, volume, money) using decimal notation, including scaling.

Use all four operations to solve probles involving measure (for example, money).

Solve problems involving the calculation and conversion of unts of measure, using decimal notation up to three decimal places where appropriate.

Use, read, write and convert between s standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation up to three decimal places.

Convert between miles and kilometres.

Use, read, write and convert between standard units, converting measurements of time from a smaller unit of measure to a larger unit, and vice versa.



Progression of Maths Knowledge Skills and Concepts

Compare durations of events (for example to calculate the time taken by particular events or tasks).

Measure the perimeter of simple 2D shapes.

Find the area of rectilinear shapes by counting squares.

Solve problems involving converting between units of time.

Measure and calculate the perimeter of composite rectilinear shapes in centimeters and metres.

Calculate nad compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes.

Estimate volume (for example, using 1 cm3 blocks to build cuboids [including cubes]) and capacity (for example, using water).

Recognise that shapes with the same areas can have different perimeters and vice versa.

Recognise when it is possible to use formulaw for area and volume of shapes.

Calculate the area of parallelograms and triangles.

Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimeters (cm3) and cubic metres (m3), and extending to other units (for examples, mm3 and km3).



Progression of Maths Knowledge Skills and Concepts

Draw 2D shapes.

Make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them.

Recognise angles as a property of shape or adescription of a turn.

Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four make a complete turn; identify whether angles are greater than or less than a right angle.

Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.

Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.

Identify lines of symmetry in 2D shapes presented in different Orientations.

Identify acute and obtuse angles and compare and order angles up to two right angles by size.

Complete a simple symmetric figure with respect to a specific line of symmetry.

Describe positions on a 2D grid as coordinates in the first quadrant.

Describe movements between positions as translations of a given Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.

Use the properties of recangites to deduce related facts and find missing lengths and angles.

Identify 3D shapes, including cubes and other cuboids, from 2D representations.

Know angles are measured in degrees: estimate and compare aacute, obtuse and reflex angles.

Draw given angles, and measure them in degrees.

Identify:

- -Angles at a point and one whole turn (turn 360°).
- -Angles at a point on a straight line and ½ a turn (total 180°).

Draw 2D shapes using given dimensions and angles.

Compare and classify geomretic shapes based on their properties and sizes.

Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.

Recognise, describe nad build simple 3D shapes, including making nets.

Find unknown angles in any triangles, quadrilaterals, and regular polygons.

Recognise angles where they meet at a point, are on a straight line, or are



		unit to the left / right and	-Other multoples of 90°.	vertically opposite, and	
		up / down.		find missing angles.	
			Identify, describe nad		
		Plot specified points and	represent the position of a	Describe positions on the	
		draw sides to complete a	shape following a reflection	full coordinate grid (all four	
		given polygon.	or translation, using the appropriate language, and	quadrants).	
			know that the shape has not	Draw and translate simple	
			changed.	shapes on the coordinate	
				plane, and reflect them in	
				the axes.	
	Interpret and present	Interpret and present	Complete, read and	Interpret and construct pie	
	data using bar charts,	discrete and continuous	interpret information in	charts and lines graphs	
	pictograms and tables.	data using appropriate graphical methods,	tables, including timetables.	and use these to solve problems.	
SS	Solve one-step and two-	including bar charts and	Solve comparison, sum and		
) ţi	step questions (for	time graphs.	difference problems using	Calculate and interpret the	
Ti:	example, 'how many		information presented in a	mean as an average.	
Statistics	more?' and 'how many	Solve comparison, sum	line graph.		
(U)	fewer?') using information presented in	and difference problems using information			
	scaled bar charts and	presented in bar charts,			
	pictograms and tables.	pictograms, tables and			
	1, 1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	other graphs.			