

	YR	Y1 Y2		Y3	Y4	Y5	Y6
Number	<u>Number</u>	Within 10	<ul> <li>Count in steps of</li> </ul>	• Count from 0 in	<ul> <li>Count in multiples</li> </ul>	<ul> <li>Read, write, order</li> </ul>	<ul> <li>Read, write, order</li> </ul>
and Place	<ul> <li>To count 5 objects</li> </ul>	<ul> <li>Count to and</li> </ul>	2, 3, and 5 from 0,	multiples of 4, 8,	of 6, 7, 9, 25 and	and compare	and compare
Value	that can't be seen,	across 100,	and in tens from	50 and 100; find	1000	numbers to at	numbers up to 10
	can be moved or	forwards and	any number,	10 or 100 more or	<ul> <li>Find 1000 more or</li> </ul>	least 1 000 000	000 000 and
	can't be moved.	backwards,	forward and	less than a given	less than a given	and determine	determine the
	Tag each object	beginning with 0	backward	number	number	the value of each	value of each digit
	with one number	or 1, or from any	J	<ul> <li>Recognise the</li> </ul>	<ul> <li>Count backwards</li> </ul>	digit	Round any whole
	word, progressing	given number	place value of	place value of	through zero to	<ul> <li>Count forwards or</li> </ul>	number to a
	to 10, 13, 16 then	<ul> <li>Count, read and</li> </ul>	each digit in a	each digit in a	include negative	backwards in	required degree
	20.	write numbers to	two-digit number	three-digit	numbers	steps of powers of	of accuracy
	• To make sets to 5.	10 in numerals;	(tens, ones)	number	<ul> <li>Recognise the</li> </ul>	10 for any given	<ul> <li>Use negative</li> </ul>
	Respond to 'Get	<ul> <li>Given a number,</li> </ul>	<ul> <li>Identify,</li> </ul>	(hundreds, tens,	place value of	number up to	numbers in
	me' and How	identify one more	represent and	ones)	each digit in a	1 000 000	context, and
	many?',	and one less	estimate numbers	• Compare and	four-digit number	Interpret negative	calculate intervals
	progressing to 10,	within 10	using different	order numbers up	(thousands,	numbers in	across zero
	13, 16 and 20.	<ul> <li>Identify and</li> </ul>	representations,	to 1000	hundreds, tens,	context, count	Solve number and
	Subitise to 5.	represent	including the	Identify,	and ones)	forwards and	practical
	Use the subitise	numbers using	number line	represent and	• Order and	backwards with	problems that
	patterns and the	objects and	• Compare and	estimate numbers	compare numbers	positive and	involve all of the
	composition of	pictorial	order numbers	using different	beyond 1000	negative whole	above.
	numbers to	representations	from 0 up to 100;	representations	Identify,	numbers, including through	
	recognise quantities to10	including the number line, and	use <, > and = signs	<ul> <li>Read and write numbers up to</li> </ul>	represent and	zero	
	without counting.	use the	Read and write	1000 in numerals	estimate numbers using different	_	
	Match quantity to	language of: equa	numbers to at	and in words	- C	<ul><li>Round any number up to</li></ul>	
	numeral to 5,	I to, more than,	least 100 in	Solve number	representations  Round any	1 000 000 to the	
	progressing to 10,	less than (fewer),	numerals and in	problems and	<ul> <li>Round any number to the</li> </ul>	nearest 10, 100,	
	13, 16 and 20.	most, least within	words	practical	nearest 10, 100 or	1000, 10 000 and	
	Know that an	10	Use place value	problems	1000	100 000	
	amount doesn't	Read and write	and number facts	involving these	Solve number and	• Solve number	
	change even if the	numbers from 1	to solve problems.	ideas.	practical	problems and	
	objects are moved	to 10 in numerals	30 30.10 p. 001011131		problems that	practical	
	if the amount	and words.			involve all of the	problems that	
	hasn't changed, to				above and with	involve all of the	
					and the state of	above	



	5, progressing to	Within 50	increasingly large	• Read Roman	
	10.	Count, read and	positive numbers	numerals to 1000	
•	Understand that	write numbers to	• Read Roman	(M) and recognise	
	10-19 are made	50 in numerals.	numerals to 100 (I	years written in	
	up of one ten and	Know the value of	to C) and know	Roman numerals.	
	extra ones and 20	tens and ones in	that over time,		
	is made up of two	a two	the numeral		
	tens and no extra	digit number	system changed		
	ones.	within 50	to include the		
		Know one more	concept of zero		
Nui	merical Patterns	than and one less	and place value.		
•	Count verbally	than a number			
	forwards and	within 50 and			
	backwards to 5,	solve problems			
	progressing to 10,	using this			
	13, 16, 20 and	knowledge.			
	beyond 20 (refer	Know ten more			
	to the	than a number			
	chronological	within 50 and			
	order of numbers	solve problems			
	and their pattern	using this			
	on a number line).	knowledge.			
Cor	mnara	Know ten less			
	<u>mpare</u> iantities/Shapes	than a number			
<u>Qu</u>	Compare	within 50 and			
	quantities using	solve problems using this			
	'more' and 'less'.	knowledge.			
	more and less.	Knowledge.			
		Within 100			
		Count, read and			
		write numbers to			
		100 in numerals.			
		Know the value of			
		tens and ones in			
		a two			



digit number within 100  • Know one more
than and one less
than a number
within 100 and
solve problems
using this
knowledge.
Know ten more
than a number
within 100 and
solve problems
using this
knowledge.
Know ten less     than a number
than a number within 100 and
solve problems
using this
knowledge.



	YR	Y1	Y2	Y3	Y4	Y5	Y6
Addition	Numerical Patterns	<ul> <li>Represent and</li> </ul>	• Solve problems	Add and subtract	Add and subtract	Add and subtract	Perform mental
and	• Find 1 more to 5,	use number	with addition	numbers	numbers with up	whole numbers	calculations,
Subtraction	progressing to	bonds and	and subtraction:	mentally,	to 4 digits using	with more than 4	including with
	10, 13, 16 and 20.	related	<ul><li>Using</li></ul>	including:	the formal	digits, including	mixed
	• Find 1 less to 5,	subtraction facts	concrete	<ul> <li>A three-digit</li> </ul>	written methods	using formal	operations and
	progressing to	within 10	objects and	number and	of columnar	written methods	large numbers
	10, 13, 16 and 20.	• Add and	pictorial	ones	addition and	(columnar	• Use their
	<ul> <li>To know when</li> </ul>	subtract one	representati	<ul> <li>A three-digit</li> </ul>	subtraction	addition and	knowledge of the
	the amount is the	digit numbers to	ons,	number and	where	subtraction)	order of
	same as another	10, including 0.	including	tens	appropriate	<ul> <li>Add and subtract</li> </ul>	operations to
	amount to 5,	<ul> <li>Read and write</li> </ul>	those	<ul> <li>A three-digit</li> </ul>	<ul> <li>Estimate and use</li> </ul>	numbers	carry out
	progressing to	mathematical	involving	number and	inverse	mentally with	calculations
	10.	statements	numbers,	hundreds	operations to	increasingly large	involving the
	• Know the	involving	quantities	<ul> <li>Add and subtract</li> </ul>	check answers to	numbers	four operations
	composition of	addition (+),	and	numbers with up	a calculation	<ul> <li>Use rounding to</li> </ul>	<ul> <li>Solve addition</li> </ul>
	each number to	subtraction (-)	measures	to three digits,	<ul> <li>Solve addition</li> </ul>	check answers to	and subtraction
	5, progressing to	and equals (=)	<ul> <li>Applying</li> </ul>	using formal	and subtraction	calculations and	multi-step
	10. (Part, part	signs.	their	written methods	two-step	determine, in the	problems in
	whole and whole	<ul> <li>Solve one-step</li> </ul>	increasing	of columnar	problems in	context of a	contexts,
	part, part.)	problems within	knowledge	addition and	contexts,	problem, levels	deciding which
		10 that involve	of mental	subtraction	deciding which	of accuracy	operations and
	<u>Number</u>	addition and	and written	• Estimate the	operations and	<ul> <li>Solve addition</li> </ul>	methods to use
	<ul> <li>Automatically</li> </ul>	subtraction,	methods	answer to a	methods to use	and subtraction	and why
	recall '1 more'	using concrete	<ul> <li>Recall and use</li> </ul>	calculation and	and why.	multi-step	<ul> <li>Solve problems</li> </ul>
	and '1 less' to 5,	objects and	addition and	use inverse		problems in	involving
	10, 13, 16 and 20.	pictorial	subtraction facts	operations to		contexts,	addition,
	<ul> <li>Automatically</li> </ul>	representations,	to 20 fluently,	check answers		deciding which	subtraction,
	recall number	and missing	and derive and	<ul> <li>Solve problems,</li> </ul>		operations and	multiplication
	bonds to 5 and	number	use related facts	including missing		methods to use	and division
	10.	problems such as	up to 100	number		and why.	<ul> <li>Use estimation</li> </ul>
	• Add two	7= 2	<ul> <li>Add and subtract</li> </ul>	problems, using			to check answers
	amounts		numbers using	number facts,			to calculations
	together using		concrete objects,	place value, and			and determine,
	number blocks,		pictorial	more complex			in the context of
			representations,				a problem, an



record	and mentally, addition and	appropriate
pictorially.	including: subtraction.	degree of
• Add two	A two-digit	accuracy.
amounts	number and	
together using a	ones	
'part, part,	A two-digit	
whole' mat using	number and	
objects, record	tens	
pictorially.	• Two two-	1
Subtract two	digit	1
amounts	numbers	
together using	Adding three	1
real life objects	one-digit	1
and number	numbers	1
blocks record	Show that	1
pictorially.	addition of two	1
Automatically	numbers can be	1
recall 'add 1' and	done in any order	1
'add 2' to 20.	(commutative)	
Automatically	and subtraction	1
recall 'subtract 1'	of one number	1
and 'subtract 2'	from another	
to 20.	cannot	
Add and subtract	Recognise and	1
on a tens frame,	use the inverse	
recording	relationship	1
pictorially and	between	1
using	addition and	1
mathematical	subtraction and	1
symbols.	use this to check	
	calculations and	
	solve missing	
	number	
	problems.	



	YR	Y1		Y2		Y3		Y4	Y5			Y6
Multiplication	Number	• Count	in	Doubling and	•	Recall and use	•	Recall	•	Identify	•	Multiply multi-
and Division	<ul> <li>Know double</li> </ul>	multiples	of	Halving:		multiplication		multiplication		multiples and		digit numbers up
	facts to 10.	twos, five	es and	<ul> <li>Recall and use</li> </ul>		and division		and division		factors,		to 4 digits by a
	• Know that	tens	(using	multiplication		facts for the 3, 4		facts for		including finding		two-digit whole
	quantities can	various	_	and division		and 8		multiplication		all factor pairs of		number using
	be distributed	such as p		facts for the 2, 5		multiplication		tables up to 12 ×		a number, and		the formal
	equally between	socks, fing	_	and 10		tables		12		common factors		written method
	two groups.	petaled fl	owers,	multiplication	•	Write and	•	Use place value,		of two numbers		of long
		hands)		tables, including		calculate		known and	•	Know and use		multiplication
	• Know that			recognising odd		mathematical		derived facts to		the vocabulary	•	Divide numbers
	numbers can be	know the		and even		statements for		multiply and		of prime		up to 4 digits by
	partitioned into		fferent	numbers		multiplication		divide mentally,		numbers, prime		a two-digit
	more than 2	denomina		Calculate		and division		including:		factors and		whole number
	groups.	of coins		mathematical		using the		multiplying by 0		composite (non-		using the formal
	• Know that	notes an		statements for		multiplication		and 1; dividing		prime) numbers		written method
	doubles can help	these to p		multiplication		tables that they		by 1; multiplying	•	Establish		of long division,
	us to add or	counting 5s, 10s	in 2s,	and division within the		know, including for two-digit		together three numbers		whether a		and interpret remainders as
	subtract near	• Solve one	cton	multiplication		numbers times	•	Recognise and		number up to 100 is prime and		whole number
	doubles.	problems	by	tables and write		one-digit	•	use factor pairs		recall prime		remainders,
	Numerical Patterns	calculating	-	them using the		numbers, using		and		numbers up to		fractions, or by
	• Explore and	answer	using	multiplication		mental and		commutativity		19		rounding, as
	recognise	concrete	using	(×), division (÷)		progressing to		in mental	•	Multiply		appropriate for
	patterns in	objects, p	ictorial	and equals (=)		formal written		calculations		numbers up to 4		the context
	number	representa		signs		methods	•	Multiply two-		digits by a one-	•	Divide numbers
	including 'odd'	with the s		• Show that	•	Solve problems,		digit and three-		or two-digit		up to 4 digits by
	and 'even' in	of the tea		multiplication of		including		digit numbers by		number using a		a two-digit
	numbers to ten	<ul> <li>Invol</li> </ul>	ving	two numbers		missing number		a one-digit		formal written		number using
	and beyond.	mult	iplicati	can be done in		problems,		number using		method,		the formal
	Explore counting	on		any order		involving		formal written		including long		written method
	in 2's, 5's and	(grou	uping)	(commutative)		multiplication		layout		multiplication		of short division
	ten's,	• Invol	ving	and division of		and division,	•	Solve problems		for two-digit		where
	recognising	mult	iplicati	one number by		including		involving		numbers		appropriate,
	numerical	on (a	rrays)	another cannot		positive integer		multiplying and	•	Multiply and		interpreting
	patterns.					scaling problems		adding,		divide numbers		remainders



	Involving •	Solve problems	and	including using	mentally	according to the
	division	involving	correspondence	the distributive	drawing upon	context
	(grouping)	multiplication	problems in	law to multiply	known facts	Perform mental
	Involving	and division,	which n objects	two digit	Divide numbers	calculations,
	division	using materials,	are connected to	numbers by one	up to 4 digits by	including with
		arrays, repeated	m objects	digit, integer	a one-digit	mixed mixed
	(arrays)		iii objects	scaling problems		
	Involving	addition, mental		and harder	number using the formal	operations and
	division	methods, and				large numbers
	(sharing)	multiplication		correspondence problems such	written method of short	<ul> <li>Identify</li> </ul>
	ount in	and division		•		common
	nultiples of	facts, including		as n objects are	division and	factors,
	wos, fives and	problems in		connect	interpret	common
	ens (using	contexts.			remainders	multiples and
	arious images •	Recall and use			appropriately	prime numbers
	uch as pairs of	multiplication			for the context	<ul> <li>Solve problems</li> </ul>
	ocks, fingers, 5	and division			<ul> <li>Recognise and</li> </ul>	involving
	etaled flowers,	facts for the 2, 5			use square	addition,
ha	ands)	and 10			numbers and	subtraction,
	ecognise and	multiplication			cube numbers,	multiplication
kr	now the value	tables, including			and the notation	and division
of	f different	recognising odd			for squared (2)	<ul> <li>Use estimation</li> </ul>
de	enominations	and even			and cubed ( <sup>3</sup> )	to check
of	f coins and	numbers			<ul> <li>Solve problems</li> </ul>	answers to
no	otes and use •	Calculate			involving	calculations and
th	nese to practice	mathematical			multiplication	determine, in
cc	ounting in 2s,	statements for			and division	the context of a
55	s, 10s	multiplication			including using	problem, an
Solve	one step	and division			their knowledge	appropriate
proble	ems by	within the			of factors and	degree of
calcula	•	multiplication			multiples,	accuracy.
answe	er using	tables and write			squares and	1
concre	=	them using the			cubes	
pictori	•	multiplication			<ul> <li>Solve problems</li> </ul>	
•	sentations with	(×), division (÷)			involving	
•	upport of the	and equals (=)			addition,	
teache	· · ·	signs			subtraction,	



m (g   m (g   m )   m (g   m )   m   m   m   m   m   m   m   m	Involving multiplication (grouping) Involving multiplication (arrays) Involving division (grouping) Involving division (arrays) Involving division (arrays) Involving division (sharing) Involving division (sharing)  • Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot • Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and	multiplication and division and a combination of these, including understanding the meaning of the equals sign • Solve problems involving multiplication and division, includin g scaling by simple fractions and problems involving simple rates.
(s	arrays, repeated addition, mental	and problems involving simple



YR	Y1	Y2		Y3		Y4		Y5		Y6
Fractions	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 one third, one quarter, two quarters and three quarters of a length, shape, set of objects or quantity	•	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 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 Add and subtract fractions with the same denominator	•	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 $ \frac{2}{5} = \frac{6}{5} = 1^{\frac{1}{5}} $ Add and subtract fractions with the same denominator and denominators that are multiples of the same number	•	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, ½ × ½ = 1/8]  Divide proper fractions by whole numbers [for example, 1/3 ÷ 2 = 1/6]



6) [for example, 5/7 + 1/7 = 6/7] 7) compare and order unit fractions, and fractions with the same	<ul> <li>Multiply proper fractions and mixed numbers by whole numbers, supported by materials and</li> </ul>
<ul><li>denominators</li><li>Solve problems</li><li>that involve all of</li><li>the above.</li></ul>	diagrams

	YR	Y1	Y2	Y3	Y4	Y5	Y6
Decimals					<ul> <li>Recognise and write decimal equivalents of any number of tenths or hundredths</li> <li>Recognise and write decimal equivalents to one quarter, a half, three quarters</li> <li>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 ones, tenths and hundredths</li> <li>Round decimals with one decimal place to the nearest whole number</li> <li>Compare numbers with the same number of decimal places up to two decimal places</li> <li>Solve simple measure and money problems involving fractions and decimals to two decimal places.</li> </ul>	to the nearest whole number and to one decimal place  Read, write, order and compare numbers with up to three decimal places	<ul> <li>Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]</li> <li>Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places</li> <li>Multiply one-digit numbers with up to two decimal places by whole numbers</li> <li>Use written division methods in cases where the answer has up to two decimal places</li> <li>Solve problems which require answers to be rounded to specified degrees of accuracy</li> </ul>



	YR	Y1	Y2	Y3	Y4	Y5	Y6
Percentages						<ul> <li>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</li> <li>Solve problems which require knowing percentage and decimal equivalents of <sup>1</sup>/<sub>2</sub>, <sup>1</sup>/<sub>4</sub>, <sup>1</sup>/<sub>5</sub>, <sup>2</sup>/<sub>5</sub>, <sup>4</sup>/<sub>5</sub> and those fractions with a denominator of a multiple of 10 or 25.</li> </ul>	Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.

	YR	Y1	Y2	Y3	Y4		Y5	Y6
Measurement (Money)			<ul> <li>Count in 1s, 10s, 2s, 20s, 5s, 50s,</li> <li>Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value.</li> <li>Find different combinations of coins that equal the same amounts of money.</li> <li>Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.</li> </ul>	Add and subtract amounts of money to give change, using both £ and p in practical context	Estimate, compare and calculate different measures, including money in pounds and pence	•	Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.	



	YR	Y1	Y2	Y3	Y4	Y5	Y6
Measurement	<u>Compare</u>	<u>Length</u>	Choose and use	<ul> <li>Measure,</li> </ul>	Y3 measure	• Convert between	Solve problems
(Length,	Quantities/Shapes	Compare, describe and	appropriate	compare, add	expectations to	different units of	involving the
Weight/Mass)	<ul> <li>Compare</li> </ul>	solve practical problems	standard units	and subtract:	revisit:	metric measure	calculation and
	length using	for:	to estimate and	<ul> <li>Lengths</li> </ul>	<ul> <li>Measure,</li> </ul>	(for example,	conversion of
	'longer' and	<ul> <li>Lengths and heights (for</li> </ul>	measure to the	(m/cm/	compare, add	kilometre and	units of
	'shorter'.	example, long/short,	nearest	mm);	and subtract:	metre;	measure, using
	<ul> <li>Compare</li> </ul>	longer/shorter,	appropriate	<ul><li>Mass</li></ul>	<ul><li>Lengths</li></ul>	centimetre and	decimal
	quantities	tall/short, double/half)	unit, using	(kg/g);	(m/cm/m	metre;	notation up to
	using 'full' and	Measure and begin to	rulers, scales,	<ul><li>Volume/</li></ul>	m);	centimetre and	three decimal
	'empty',	record lengths and	thermometers	capacity	<ul><li>Mass</li></ul>	millimetre; gram	places where
	'heavier' and	heights.	and measuring	(l/ml) b)	(kg/g);	and kilogram; litre	appropriate
	ʻlighter'.	Mass/Weight	vessels:		<ul> <li>Volume/c</li> </ul>	and millilitre)	• Use, read,
		Compare, describe and	length/hei		apacity	<ul> <li>Understand and</li> </ul>	write and
		solve practical problems	ght in any		(I/mI)	use approximate	convert
		for:	direction		• Convert	equivalences bet	between
		Mass/weight: [for	(m/cm);		between	ween metric units	standard units,
		example,	• mass		different units	and common imperial units	converting measurements
		heavy/light, heavier	(kg/g);		of measure		
		than, lighter than];	• temperatu		[for example,	such as inches, pounds and pints	of length, mass, volume and
		Measure and begin to	re(°C);		kilometre to	Use all four	time from a
		record:	<ul><li>capacity (litres/ml)</li></ul>		metre; hour to	operations to	smaller unit of
		Mass/weight;	, , ,		minute]	solve problems	measure to a
		Capacity Compare, describe and solve	Compare and     order lengths			involving	larger unit, and
		practical problems for:	order lengths, mass,			measure [for	vice versa,
		·	volume/capacit			example, length,	using decimal
		<ul> <li>Capacity and volume [for example,</li> </ul>	y and record			mass, volume,	notation to up
		full/empty, more than,	the results			money] using	to three
		less than, half, half full,	using >, < and =			decimal notation,	decimal places
		quarter]	donig / / dild =			including scaling.	• Convert
		Measure and begin to					between miles
		record:					and kilometres
		Capacity and volume					



	YR	Y1	Y2	Y3		Y4		Y5		Y6
Measurement (Time)		<ul> <li>Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening.</li> <li>Recognise and use language relating to dates, including days of the week, weeks, months and years.</li> <li>Compare, describe and solve practical problems for time [for example, quicker, slower, earlier, later]</li> <li>Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times. (link this to the knowledge to prior learning of halves and quarters in fractions and position and direction)</li> <li>Measure and begin to record time (hours, minutes, seconds)</li> </ul>	Compare and sequence intervals of time  Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times  Know the number of minutes in an hour and the number of hours in a day.	Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 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 Know the number of seconds in a minute and the number of days in each month, year and leap year Compare durations of events [for example to calculate the time taken by particular events or tasks].	•	Read, write and convert time between analogue and digital 12- and 24-hour clocks Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days	•	Solve problems involving converting between units of time (Pupils use all four operations in problems involving time and money, including conversions (for example, days to weeks, expressing the answer as weeks and days). Solve problems involving converting between units of time	•	Use, read, write and convert between 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 to up to three decimal places



	YR	Y1	Y2	Y3	Y4	Y5	Y6
Measurement (Area and Perimeter)				Measure the perimeter of simple 2-D shapes	Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres     Find the area of rectilinear shapes	<ul> <li>Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres</li> <li>Calculate and 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</li> <li>Estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water]</li> </ul>	of circles, including radius, diameter and circumference and know that the diameter is twice the radius  recognise that shapes with the same areas can have different perimeters and vice versa  recognise when it is possible to use formulae for area and volume of shapes  calculate the area of parallelograms and triangles



	YR	Y1	Y2	Y3	Y4	Y5	Y6
Geometry (Shape)	Compare Quantities/Shapes  Name 2D shapes. Name 3D shapes. Match 2D and 3D shapes.	<ul> <li>Recognise and name common 2-D shapes, including: (for example, rectangles (including squares), circles and triangles)</li> <li>Recognise and name common 3-D shapes, including: (for example, cuboids (including cubes), pyramids and spheres.)</li> </ul>	<ul> <li>Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line</li> <li>Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces</li> <li>Identify 2-D shapes on the surface of 3-D shapes [for example, a circle on a cylinder and a triangle on a pyramid]</li> <li>Compare and sort common 2-D and 3-D shapes and everyday objects.</li> </ul>	<ul> <li>Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them</li> <li>Recognise angles as a property of shape or a description of a turn</li> <li>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</li> <li>Identify horizontal and vertical lines and pairs</li> </ul>	<ul> <li>Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</li> <li>Identify acute and obtuse angles and compare and order angles up to two right angles by size</li> <li>Identify lines of symmetry in 2-D shapes presented in different orientations</li> <li>Complete a simple symmetric figure with respect to a specific line of symmetry</li> </ul>	<ul> <li>Identify 3-D shapes, including cubes and other cuboids, from 2-D representations</li> <li>Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles</li> <li>Draw given angles, and measure them in degrees (°)</li> <li>Identify:         <ul> <li>Angles at a point and one whole turn (total 360°)</li> <li>Angles at a point on a straight line and 1/2 a turn (total 180°)</li> <li>Other multiples of 90°</li> </ul> </li> </ul>	<ul> <li>Draw 2-D shapes using given dimensions and angles</li> <li>Recognise, describe and build simple 3-D shapes, including making nets</li> </ul>



	perpendicular	• Use the
	and parallel lines.	properties of
		rectangles to
		deduce related
		facts and find
		missing lengths
		and angles
		Distinguish
		between regular
		and irregular
		polygons based
		on reasoning
		about equal sides
		and angles.





	YR	Y1	Y2	Y3	Y4	Y5	Y6
Statistics			<ul> <li>Interpret and construct simple pictograms, tally charts, block diagrams and simple tables</li> <li>Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity</li> <li>Ask and answer questions about totalling and comparing categorical data</li> </ul>	Interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.	<ul> <li>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.</li> <li>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</li> </ul>	<ul> <li>Solve comparison, sum and difference problems using information presented in a line graph</li> <li>Complete, read and interpret information in tables, including timetables.</li> </ul>	<ul> <li>interpret and construct pie charts and line graphs and use these to solve problems</li> <li>calculate and interpret the mean as an average.</li> </ul>



	YR	Y1	Y2	Y3	Y4	Y5	Y6
Ratio and							• solve problems involving the relative sizes of two quantities where missing values can be found by using integer
Proportion							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.

	YR	Y1	Y2	Y3	Y4	Y5	Y6
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.