#### **Primary School**



	Early Years	Key S	tage 1	Lower Key Stage 2		Upper Ke	ey Stage 2
Strand	l Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
PV- Counting	<ul> <li>Count objects, actions and sounds.</li> <li>Count beyond ten.</li> <li><u>ELG:</u> Verbally count beyond 20, recognising the pattern of the counting system.</li> </ul>	<ul> <li>count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number</li> <li>count numbers to 100 in numerals; count in multiples of twos, fives and tens</li> </ul>	• count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward	<ul> <li>count from 0 in multiples of 4, 8, 50 and 100;</li> <li>find 10 or 100 more or less than a given number</li> </ul>	<ul> <li>count in multiples of 6, 7, 9, 25 and 1 000</li> <li>count backwards through zero to include negative numbers</li> </ul>	<ul> <li>count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000</li> <li>count forwards and backwards with positive and negative whole numbers, including through zero</li> </ul>	<ul> <li>use negative numbers in context, and calculate intervals across zero</li> </ul>
PV - Representing	<ul> <li>subitise.</li> <li>Link the number symbol (numeral) with its cardinal number value.</li> <li><u>ELG:</u> Subitise (recognise quantities without counting) up to 5.</li> </ul>	<ul> <li>identify and represent numbers using objects and pictorial representations including the number line</li> <li>read and write numbers to 100 in numerals; count in multiples of twos, fives and tens</li> <li>read and write numbers from 1 to 20 in numerals and words.</li> </ul>	<ul> <li>identify, represent and estimate numbers using different representations, including the number line</li> <li>read and write numbers to at least 100 in numerals and in words</li> </ul>	estimate numbers using different representations	<ul> <li>identify, represent and estimate numbers using different representations</li> <li>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.</li> </ul>	<ul> <li>read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit (appears also in Comparing Numbers)</li> <li>read Roman numerals to 1 000 (M) and recognise years written in Roman numerals.</li> </ul>	• read, write, order and compare numbers up to 10 000 000 and determine the value of each digit



PV - Comparing



	Compare	• given a number, identify	<ul> <li>recognise the place</li> </ul>	<ul> <li>recognise the place</li> </ul>	<ul> <li>recognise the place</li> </ul>	<ul> <li>read, write, order and</li> </ul>	<ul> <li>read, write, order and</li> </ul>	
	numbers.	one more and one less	value of each digit in a	value of each digit in a	value of each digit in a	compare numbers to at	compare numbers up to	
			two-digit number (tens,	three-digit number	four-digit number	least 1 000 000 and	10 000 000 and	
	<ul> <li>Understand the</li> </ul>	<ul> <li>use the language of:</li> </ul>	ones)	(hundreds, tens, ones)	(thousands, hundreds,	determine the value of	determine the value of	
	'one more	equal to, more than, less			tens, and ones)	each digit (appears also	each digit (appears also	
	than/one less	than (fewer), most, least	<ul> <li>compare and order</li> </ul>			in Representing)	in Representing)	
	than'		numbers from 0 up to					
	relationship		100; use <, > and = signs					
	between							
	consecutive							
	numbers.							
	• Explore the							
	composition of							
	numbers up to							
)	10.							
	ELG:							
•	Compare							
	quantities up							
	to10 in different							
	contexts,							
	recognising							
	when one							
	quantity is							
	greater than,							
	less than or the							
	same as the							
	other quantity.							
	<u>ELG:</u>							
	Have a deep							
	understanding							
	of numbers to							
	10, including the							
	composition of							
	each number.							
								1



DELAPRE	
<b>Primary School</b>	



S	<ul> <li>Solve real world</li> </ul>	<ul> <li>use place value and</li> </ul>	<ul> <li>solve number problems</li> </ul>	<ul> <li>round any number to the</li> </ul>	<ul> <li>round any number up to</li> </ul>	<ul> <li>round any whole</li> </ul>
Ê	mathematical	number facts to solve	and practical problems	nearest 10, 100 or 1 000	1 000 000 to the nearest	number to a required
le	problems with	problems	involving these ideas.		10, 100, 1 000, 10 000	degree of accuracy
qo	numbers up to			<ul> <li>solve number and</li> </ul>	and 100 000	
Ā	5.			practical problems that		<ul> <li>solve number and</li> </ul>
જ				involve all of the above	<ul> <li>solve number problems</li> </ul>	practical problems that
50	<ul> <li>Begin to</li> </ul>			and with increasingly	and practical problems	involve all of the above
<u>ii</u>	describe a			large positive numbers	that involve all of the	
pu	sequence of				above	
nc	events, real or					
Rc	fictional, using					
I.	words such as					
>	'first', 'then'					





	<ul> <li>Subitise.</li> </ul>	<ul> <li>represent and use</li> </ul>	<ul> <li>recall and use addition</li> </ul>	<ul> <li>estimate the answer to a</li> </ul>	<ul> <li>estimate and use inverse</li> </ul>	<ul> <li>use rounding to check</li> </ul>	<ul> <li>use estimation to check</li> </ul>
		number bonds and	and subtraction facts to	calculation and use	operations to check	answers to calculations	answers to calculations
	<ul> <li>Explore the</li> </ul>	related subtraction facts	20 fluently, and derive	inverse operations to	answers to a calculation	and determine, in the	and determine, in the
	composition of	within 20	and use related facts up	check answers		context of a problem,	context of a problem,
	numbers to 10.		to 100			levels of accuracy	levels of accuracy.
	numbers to 10.	<ul> <li>read, write and interpret</li> </ul>					
e		mathematical	<ul> <li>show that addition of</li> </ul>			<ul> <li>add and subtract</li> </ul>	<ul> <li>perform mental</li> </ul>
Us	Automatically	statements involving	two numbers can be			numbers mentally with	calculations, including
t, I	recall number	addition (+), subtraction	done in any order			increasingly large	with mixed operations
h	bonds 0-5 and	(-) and equals (=) signs	(commutative) and			numbers	and large numbers
ese	some to 10.	(appears also in Written	subtraction of one number from another				
ore		Methods)	cannot				
Sel	ELG:		Califiot				
, Е			<ul> <li>recognise and use the</li> </ul>				
all	Automatically		inverse relationship				
ec	recall (without		between addition and				
R	reference to		subtraction and use this				
Ú.	rhymes,		to check calculations and				
tic	counting or		solve missing number				
ac	other aids)		problems.				
btr	number bonds						
lu	up to 5						
q	(including						
ů n	subtraction						
n	facts) and some						
Addition and Subtraction- Recall, Represent, Use	number bonds						
dit	to 10, including						
٩d	double facts.						
1	double facts.						
	<u>ELG:</u>						
	Have a deep						
	understanding						
	of numbers to						
	10, including the						

#### **Primary School**



	composition of each number. <u>ELG:</u> Subitise (recognise quantities without counting) up to 5.					
Addition and Subtraction - Calculations	<ul> <li>See above</li> </ul>	<ul> <li>add and subtract numbers using concrete objects, pictorial representations, and mentally, including:         <ul> <li>a two-digit number and ones</li> <li>a two-digit number and tens</li> <li>two two-digit numbers</li> <li>adding three one- digit numbers</li> </ul> </li> </ul>	<ul> <li>add and subtract numbers mentally, including:         <ul> <li>a three-digit number and ones</li> <li>a three-digit number and tens</li> <li>a three-digit number and tens</li> <li>a three-digit number and hundreds</li> </ul> </li> <li>add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction</li> </ul>	<ul> <li>add and subtract numbers with up to 4 digits using the formal written methods of column addition and subtraction where appropriate</li> </ul>	<ul> <li>add and subtract whole numbers with more than 4 digits, including using formal written methods (column addition and subtraction)</li> </ul>	<ul> <li>use their knowledge of the order of operations to carry out calculations involving the four operations</li> </ul>





	ELG:	<ul> <li>solve one-step problems</li> </ul>	<ul> <li>solve problems with</li> </ul>	<ul> <li>solve problems,</li> </ul>	<ul> <li>solve addition and</li> </ul>	<ul> <li>solve addition and</li> </ul>	<ul> <li>solve addition and</li> </ul>
1	Explore and	that involve addition and	addition and	including missing	subtraction two-step	subtraction multi-step	subtraction multi-step
no	represent	subtraction, using	subtraction:	number problems, using	problems in contexts,	problems in contexts,	problems in contexts,
Solving	patterns within	concrete objects and	<ul> <li>using concrete</li> </ul>	number facts, place	deciding which	deciding which	deciding which
	numbers up to	pictorial	objects and pictorial	value, and more complex	operations and methods	operations and methods	operations and methods
otr Ivi	10, including	representations, and	representations,	addition and subtraction	to use and why	to use and why	to use and why
ubti Solv	evens and odds,	missing number	including those				
	double facts and	problems such as 7 = * -	involving numbers,				
and § blem	how quantities	9	quantities and				
	can be		measures				
tion Pro	distributed		<ul> <li>applying their</li> </ul>				
iti F	evenly.		increasing				
pp			knowledge of				
Ad			mental and written				
			methods				





	_ · ·					
	• Explore the			<ul> <li>recall multiplication and</li> </ul>	<ul> <li>identify multiples and</li> </ul>	<ul> <li>identify common factors,</li> </ul>
	composition of	multiplication and	multiplication and	division facts for	factors, including finding	common multiples and
	numbers to 10.	division facts for the 2, 5	division facts for the 3, 4	multiplication tables up	all factor pairs of a	prime numbers
		and 10 multiplication	and 8 multiplication	to 12 × 12	number, and common	
Use	<u>ELG:</u>	tables, including	tables		factors of two numbers.	<ul> <li>use estimation to check</li> </ul>
ñ	Explore and	recognising odd and		<ul> <li>use place value, known</li> </ul>		answers to calculations
t,	represent	even numbers		and derived facts to	<ul> <li>know and use the</li> </ul>	and determine, in the
Recall, Represent,	patterns within			multiply and divide	vocabulary of prime	context of a problem,
ese	numbers up to	<ul> <li>show that multiplication</li> </ul>		mentally, including:	numbers, prime factors	levels of accuracy
Dr.	10, including	of two numbers can be		multiplying by 0 and 1;	and composite (non-	
e	evens and odds,	done in any order		dividing by 1; multiplying	prime) numbers	
R,	double facts and	(commutative) and		together three numbers		
Ile	how quantities	division of one number			<ul> <li>establish whether a</li> </ul>	
SC	can be	by another cannot		<ul> <li>recognise and use factor</li> </ul>	number up to 100 is	
Re	distributed	•		pairs and commutativity	prime and recall prime	
1	evenly.			in mental calculations	numbers up to 19	
n	,					
sic	<u>ELG:</u>				<ul> <li>recognise and use</li> </ul>	
<i><i><i><i><i><i><i><i><i><i><i><i><i>&lt;</i></i></i></i></i></i></i></i></i></i></i></i></i>	Automatically				square numbers and	
Di	recall (without				cube numbers, and the	
q	reference to				notation for squared $(x^2)$	
an	rhymes,				and cubed $(x^3)$	
2	counting or					
io	other aids)					
at	number bonds					
lic	up to 5					
ip	(including					
ult	subtraction					
Multiplication and Division	facts) and some					
_	number bonds					
	to 10, including					
	double facts.					

DELA Primar	<b>VPRE</b> y School	Mathem	atics Progressi	on Map		
Multiplication and Division - Calculation		<ul> <li>calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs</li> </ul>	• 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 (appears also in Mental Methods)		<ul> <li>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</li> <li>multiply and divide numbers mentally drawing upon known facts</li> <li>divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context</li> <li>multiply and divide whole numbers and those involving decimals by 10, 100 and 1000</li> </ul>	<ul> <li>multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication</li> <li>divide numbers up to 4- digits by a two-digit whole number using the formal written method of short division where 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</li> <li>perform mental calculations, including with mixed operations and large numbers</li> </ul>





60	<u>ELG:</u>	<ul> <li>solve one-step problems</li> </ul>	<ul> <li>solve problems involving</li> </ul>	<ul> <li>solve problems,</li> </ul>	<ul> <li>solve problems involving</li> </ul>	<ul> <li>solve problems involving</li> </ul>	<ul> <li>solve problems involving</li> </ul>
Solving	Explore and	involving multiplication	multiplication and	including missing	multiplying and adding,	multiplication and	addition, subtraction,
2	represent	and division, by	division, using materials,	number problems,	including using the	division including using	multiplication and
So	patterns within	calculating the answer	arrays, repeated	involving multiplication	distributive law to	their knowledge of	division
З	numbers up to	using concrete objects,	addition, mental	and division, including	multiply two digit	factors and multiples,	
e	10, including	pictorial representations	methods, and	positive integer scaling	numbers by one digit,	squares and cubes	
q	evens and odds,	and arrays with the	multiplication and	problems and	integer scaling problems		
Problei	double facts and	support of the teacher	division facts, including	correspondence	and harder	<ul> <li>solve problems involving</li> </ul>	
	how quantities		problems in contexts	problems in which n	correspondence	multiplication and	
Ė	can be			objects are connected to	problems such as n	division, including scaling	
Divisio	distributed			m objects	objects are connected to	by simple fractions and	
vis	evenly.				m objects	problems involving	
Di						simple rates	
q							
an						<ul> <li>solve problems involving</li> </ul>	
2						addition, subtraction,	
<u>.</u>						multiplication and	
at						division and a	
lic						combination of these,	
Multiplicati						including understanding	
E I						the meaning of the	
Ē						equals sign	





				1	1	
	<b>.</b> .	nd and name • recognise, find, name	-	• count up and down in	• identify, name and write	
	a half as one			hundredths	equivalent fractions of a	
0	equal parts of				given fraction,	
ite	shape or quar		<b>u</b>	<ul> <li>recognise that</li> </ul>	represented visually,	
V		objects or quantity	10 equal parts and in	hundredths arise when	including tenths and	
<u>&gt;</u>	<ul> <li>recognise, fin</li> </ul>	nd and name	dividing one – digit	dividing an object by one	hundredths	
and Write	a quarter as c	one of four	numbers or quantities by	hundred and dividing		
	equal parts of	f an object,	10.	tenths by ten	<ul> <li>recognise mixed</li> </ul>	
se	shape or quai	ntity			numbers and improper	
n			<ul> <li>recognise, find and write</li> </ul>		fractions and convert	
80			fractions of a discrete set		from one form to the	
-Recognise			of objects: unit fractions		other and write	
Ŗ			and non-unit fractions		mathematical	
			with small denominators		statements > 1 as a	
SU O					mixed number (e.g. 2/5	
tio			<ul> <li>recognise and use</li> </ul>		+ 4/5 = 6/5 = 11/5)	
Fractions			fractions as numbers:			
Frà			unit fractions and non-			
_			unit fractions with small			
			denominators			
		• recognise the	<ul> <li>recognise and show,</li> </ul>	<ul> <li>recognise that</li> </ul>	<ul> <li>compare and order</li> </ul>	• use common factors to
		equivalence of 2/4 ar	<b>-</b>	hundredths arise when	fractions whose	simplify fractions; use
		1/2.	of common equivalent	dividing an object by one	denominators are all	common multiples to
- e		1/2.	fractions	hundred and dividing	multiples of the same	express fractions in the
n Jai			nactions	tenths by ten	number	same denomination
np			<ul> <li>compare and order unit</li> </ul>	tentils by ten	number	same denomination
ac or			•			• compare and order
Fractions - Compare			fractions, and fractions			• compare and order
			with the same			fractions, including
			denominators			fractions >1



**Primary School** 



Fraction - Calculations		• write simple fractions e.g. 1/2 of 6 = 3	• add and subtract fractions with the same denominator within one whole (e.g. 5/7 + 1/7 = 6/7)	<ul> <li>add and subtract fractions with the same denominator</li> </ul>	fractions with the same denominator and multiples of the same number • multiply proper fractions	<ul> <li>add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</li> <li>multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. 1/4 × 1/2 = 1/8)</li> <li>divide proper fractions by whole numbers (e.g.</li> </ul>	
Fractions – Solve Problems			• solve problems that involve all of the above	• 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		by whole numbers (e.g. 1/3 ÷ 2 = 1/6 )	
Decimals – Recognise and Write				<ul> <li>recognise and write decimal equivalents of any number of tenths or hundredths</li> <li>recognise and write decimal equivalents to 1/4; 1/2; 3/4</li> </ul>	<ul> <li>read and write decimal numbers as fractions (e.g. 0.71 = 71/100)</li> <li>recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</li> </ul>	<ul> <li>identify the value of each digit in numbers given to three decimal places</li> </ul>	



**Primary School** 



Decimals - Compare		<ul> <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> </ul>	<ul> <li>round decimals with two decimal places to the nearest whole number and to one decimal place</li> <li>read, write, order and compare numbers with up to three decimal places</li> </ul>	
Decimals - Calculations and Problems		<ul> <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> </ul>		<ul> <li>multiply and divide numbers by 10, 100 and 1000 where the answers are 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>



**Primary School** 



Yeight of the second	raction, Decimals and Percentages				and money problems involving fractions and decimals to two decimal places.	symbol (%) and understand that per cent relates to "number of parts per hundred", and write percentages as a fraction with denominator 100 as a decimal fraction • solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those with a denominator of a	<ul> <li>associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3/8)</li> <li>recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul>	
---	-----------------------------------	--	--	--	---	--	---	--



**Primary School** 



				<ul> <li>solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts</li> </ul>
Ratio and Proportion				• solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison
Ratio				<ul> <li>solve problems involving similar shapes where the scale factor is known or can be found</li> </ul>
				<ul> <li>solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</li> </ul>



<b>DELA</b> Primary	<b>PRE</b> y School		Mathem	atics Progressio	on Map	<b>D</b>
Algebra		<ul> <li>solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as</li> <li>7 = □ - 9</li> </ul>	<ul> <li>recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.</li> </ul>	<ul> <li>solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> </ul>		<ul> <li>use simple formulae</li> <li>generate and describe linear number sequences</li> <li>express missing number problems algebraically</li> <li>find pairs of numbers that satisfy number sentences involving two unknowns</li> <li>enumerate all possibilities of combinations of two variables</li> </ul>





	<ul> <li>Compare length,</li> </ul>	<ul> <li>compare, describe and</li> </ul>	<ul> <li>choose and use</li> </ul>	<ul> <li>measure, compare, add</li> </ul>	<ul> <li>convert between</li> </ul>	<ul> <li>convert between</li> </ul>	<ul> <li>solve problems involving</li> </ul>
	weight	solve practical problems	appropriate standard	and subtract: lengths	different units of	different units of metric	the calculation and
	and capacity.	for: lengths and heights	units to estimate and	(m/cm/mm); mass	measure (e.g. kilometre	measure (e.g. kilometre	conversion of units of
(0		[e.g. long/short,	measure length/height	(kg/g); volume/capacity	to metre; hour to	and metre; centimetre	measure, using decimal
ê		longer/shorter,	in any direction (m/cm);	(l/ml)	minute)	and metre; centimetre	notation up to three
In		tall/short, double/half]	mass (kg/g);			and millimetre; gram	decimal places where
as		mass/weight [e.g.	temperature (°C);		<ul> <li>estimate, compare and</li> </ul>	and kilogram; litre and	appropriate
Measures		heavy/light, heavier	capacity (litres/ml) to		calculate different	millilitre)	
		than, lighter than]	the nearest appropriate		measures, including		<ul> <li>use, read, write and</li> </ul>
Using		capacity and volume	unit, using rulers, scales,		money in pounds and	<ul> <li>understand and use</li> </ul>	convert between
lsi		[e.g. full/empty, more	thermometers and		pence	equivalences between	standard units,
-		than, less than, half, half	measuring vessels			metric units and	converting
, it		full, quarter] time [e.g.				common imperial units	measurements of length,
rement		quicker, slower, earlier,	<ul> <li>compare and order</li> </ul>			such as inches, pounds	mass, volume and time
E		later]	lengths, mass,			and pints	from a smaller unit of
			volume/capacity and				measure to a larger unit,
ns			record the results using			• use all four operations to	and vice versa, using
Measu			>, < and =			solve problems involving	decimal notation to up
Š						measure (e.g. length,	to three decimal places
						mass, volume, money)	
						using decimal notation	<ul> <li>convert between miles</li> </ul>
						including scaling.	and kilometres

DEI	LA.	PRI	S., 1
Prim	ary	Sch	ool



-		Т	1	T	Т	Т	
		<ul> <li>recognise and know the</li> </ul>	<ul> <li>recognise and use</li> </ul>	<ul> <li>add and subtract</li> </ul>	<ul> <li>estimate, compare and</li> </ul>	• use all four operations to	
		value of different	symbols for pounds (£)	amounts of money to	calculate different	solve problems involving	
		denominations of coins	and pence (p); combine	give change, using both	measures, including	measure (e.g. length,	
	>	and notes	amounts to make a	£ and p in practical	money in pounds and	mass, volume, money)	
	ē		particular value	contexts	pence	using decimal notation	
	Money					including scaling.	
	Ň		. Constatifferent			including scaling.	
	2		<ul> <li>find different</li> </ul>				
	L I		combinations of coins				
	ent		that equal the same				
			amounts of money				
	em		amounts of money				
	<u> </u>						
	ns		• solve simple problems in				
	easi		a practical context				
	le		involving addition and				
	Š		subtraction of money of				
			-				
			the same unit, including				
			giving change				





	• Begin to	<ul> <li>sequence events in</li> </ul>	<ul> <li>compare and sequence</li> </ul>	<ul> <li>tell and write the time</li> </ul>	-	<ul> <li>solve problems involving</li> </ul>	
	describe a	chronological order	intervals of time	from an analogue clock,	time between analogue	converting between	
	sequence of	using language [e.g.		including using Roman	and digital 12 and 24-	units of time	
	events, real or		• tell and write the time to	numerals from I to XII,	hour clocks		
	fictional, using	first, today, yesterday,	five minutes, including	and 12-hour and 24-hour			
	words, such as	tomorrow, morning,	quarter past/to the hour	clocks	<ul> <li>solve problems involving</li> </ul>		
	'first', 'then…'	afternoon and evening]	and draw the hands on a		converting from hours to		
			clock face to show these	<ul> <li>estimate and read time</li> </ul>	minutes; minutes to		
		<ul> <li>recognise and use</li> </ul>	times.	with increasing accuracy	seconds; years to		
		language relating to		to the nearest minute;	months; weeks to days		
ne		dates, including days of	<ul> <li>know the number of</li> </ul>	record and compare			
Time		the week, weeks,	minutes in an hour and	time in terms of seconds,			
		months and years	the number of hours in a	minutes, hours and			
nt			day.	o'clock; use vocabulary			
Iel		• tell the time to the hour		such as a.m./p.m.,			
εu		and half past the hour		morning, afternoon,			
JILE		and draw the hands on a		noon and midnight			
ISE		clock face to show these					
Measurement -		times.		<ul> <li>know the number of</li> </ul>			
Σ				seconds in a minute and			
				the number of days in			
				each month, year and			
				leap year			
				<ul> <li>compare durations of</li> </ul>			
				events, for example to			
				calculate the time taken			
				by particular events or			
				tasks			



#### **Primary School**



Image: Section of the section of th						
For any of the standard units, shapes       for area and volume of shapes         rectangles including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes       • calculate the area of parallelograms and triangles	Volume		the perimeter of a rectilinear figure (including squares) in	the perimeter of composite rectilinear shapes in centimetres	with the same areas can have different perimeters and vice	
using 1 cm3 blocks to     compare volume of       build cubes and cuboids     cubes and cuboids using       and capacity     standard units, including	– Perimeter, Area		rectilinear shapes by	the area of squares and rectangles including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes • estimate volume (e.g. using 1 cm3 blocks to build cubes and cuboids)	<ul> <li>possible to use formulae for area and volume of shapes</li> <li>calculate the area of parallelograms and triangles</li> <li>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 [e.g. mm3 and</li> </ul>	





Geometry: Properties of Shapes – Identifying shapes and their properties	<ul> <li>Select, rotate and manipulate shapes in order to develop spatial reasoning skills</li> </ul>	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].	<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> </ul>		<ul> <li>identify lines of symmetry in 2-D shapes presented in different orientations</li> </ul>	<ul> <li>identify 3-D shapes, including cubes and other cuboids, from 2-D representations</li> </ul>	<ul> <li>recognise, describe and build simple 3-D shapes, including making nets (appears also in Drawing and Constructing)</li> <li>illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</li> </ul>	
Geometry: Properties of Shapes – Drawing and Constructing	<ul> <li>Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can.</li> <li>Select, rotate and manipulate shapes in order to develop spatial reasoning skills.</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> </ul>	• complete a simple symmetric figure with respect to a specific line of symmetry	<ul> <li>draw given angles, and measure them in degrees (o)</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 (appears also in Identifying Shapes and Their Properties)</li> </ul>	



**Primary School** 



Geometry: Properties of Shapes – Comparing and Classifying		<ul> <li>compare and sort common 2-D and 3-D shapes and everyday objects</li> </ul>		• compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes	<ul> <li>use the properties of rectangles to deduce related facts and find missing lengths and angles</li> <li>distinguish between regular and irregular polygons based on reasoning about equal sides and angles</li> </ul>	• compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
Geometry: Properties of Shapes – Angles			<ul> <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 of perpendicular and parallel lines</li> </ul>	<ul> <li>identify acute and obtuse angles and compare and order angles up to two right angles by size</li> </ul>	<ul> <li>know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles</li> <li>identify: *angles at a point and one whole turn (total 360°) *angles at a point on a straight line and ½ a turn (total 180°) *other multiples of 90°</li> </ul>	<ul> <li>recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles</li> </ul>





	• Draw	<ul> <li>describe position,</li> </ul>	<ul> <li>use mathematical</li> </ul>		<ul> <li>describe positions on a</li> </ul>	<ul> <li>identify, describe and</li> </ul>	<ul> <li>describe positions on the</li> </ul>
DC 1	information	direction and	vocabulary to describe		2-D grid as coordinates	represent the position of	full coordinate grid (all
l a	from a simple	movement, including	position, direction and		in the first quadrant	a shape following a	four quadrants)
ou	map.	half, quarter and three-	movement including			reflection or translation,	
Ë		quarter turns.	movement in a straight		<ul> <li>describe movements</li> </ul>	using the appropriate	<ul> <li>draw and translate</li> </ul>
Direction and nt	Pattern:		line and distinguishing		between positions as	language, and know that	simple shapes on the
i t j	<ul> <li>Continue, copy</li> </ul>		between rotation as a		translations of a given	the shape has not	coordinate plane, and
<sup>o</sup> osition, Di Movement	and create		turn and in terms of		unit to the left/right and	changed	reflect them in the axes.
Position, Moveme	repeating		right angles for quarter,		up/down		
ve iti	patterns.		half and three-quarter				
os No			turns (clockwise and		<ul> <li>plot specified points and</li> </ul>		
			anti-clockwise)		draw sides to complete a		
Ľ,					given polygon		
eti			<u>Pattern:</u>				
Geometry:			<ul> <li>order and arrange</li> </ul>				
0			combinations of				
Ğ			mathematical objects in				
			patterns and sequences				
<b>_</b>			<ul> <li>interpret and construct</li> </ul>	<ul> <li>interpret and present</li> </ul>	<ul> <li>interpret and present</li> </ul>	<ul> <li>complete, read and</li> </ul>	<ul> <li>interpret and construct</li> </ul>
rei			simple pictograms, tally	data using bar charts,	discrete and continuous	interpret information in	pie charts and line
đ			charts, block diagrams	pictograms and tables	data using appropriate	tables, including	graphs and use these to
te			and simple tables		graphical methods,	timetables	solve problems
					including bar charts and		
q			<ul> <li>ask and answer simple</li> </ul>		time graphs		
an			questions by counting				
f			the number of objects in				
er			each category and				
es			sorting the categories by				
Pr			quantity				
I							
cs			<ul> <li>ask and answer</li> </ul>				
sti			questions about totalling				
Iti			and comparing				
Statistics – Present and Interpret			categorical data				
							1



<b>DELAPRE</b> Primary School		Mathematics Progression Map					
	Statistics – Solve Problems		<ul> <li>solve one-step and two- step questions [e.g. 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.</li> </ul>	<ul> <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> </ul>	<ul> <li>calculate and interpret the mean as an average</li> </ul>	

