# **Year 1 Maths**



Key:       X - For met target at ARE level.       KPI - Key Performance Indicator					Aut1	Aut2	Spr1	Spr2	Sum1	Sum2		
G - For met target at Greater Depth level.									0,	Š	S	
	Children can demonstrate their methods for solving mathematical problems using concrete apparatus or pictorial representations.											
repr	1 Count to and across 100, forwards and backwards, beginning with 0 or 1 from any given											
	KPI	number.	5 100, for wards and back	waras, beginnin	is with o or 1 from any siven							
	2	Count, read and write numbers to 100 in numerals.										
	KPI											
	3 KPI	Represent and use to 20.	addition and subtraction	facts for all nu	mbers up to 10 and some facts							
	4		between arrays, number	patterns, and c	ounting in twos, fives and tens							
	KPI	(multiplication time	es tables).									
	5 KPI	equal parts.			and a quarter as one of four							
er	6		erpret mathematical state	ments involving	g addition (+), subtraction (–) and							
ηp	7	equals (=) signs.	entify one more and one l	ess (to 100)								
Number	8	·	ne-digit and two-digit num		uding zero (mentally)							
_												
	9				, using concrete objects, pictorial							
	10		d missing number problem		entations including the number							
		line, and use the lar		pietoriai repres								
	11	Solve one-step problems involving multiplication by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.										
	12											
	12	Solve one-step problems involving division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.										
	13	Read and write numbers from 1 to 20 in words (phonetically plausible).										
	14	Compare, describe										
		capacity and volume										
	15	Compare, describe										
	16	Measure and begin to record the following: lengths and heights: mass/weight: capacity and										
<u>e</u>	.0	volume.										
<b>Лeasure</b>	17	Recognise and know 10p and 1p).										
Me	18	Sequence events in chronological order using language [for example, before and after, next,										
	40		ay, tomorrow, morning, a									
	19	Recognise and use language relating to dates, including days of the week, weeks, months and years.										
	20	*	time to the hour and half	past the hour a	nd draw the hands on a clock							
		face to show these	times.									
	21		nd describe the properties shapes (cones, spheres an		O shapes (pentagons and							
Geometry	22				nt, top, middle and bottom,							
me			bove, between, around, r									
60	23			turns in both di	rections and connect turning							
G	24		ement on a clock face.	a bioata and w	ith change							
	24 25	_	te repeating patterns with		•							
S	25	To interpret and col	nstruct simple pictograms	, simple tally cr	arts and block diagrams.							
	Not	at age expected	0 – 5 marks (ARE)	R+	Total							
tem		Autumn	6 – 10 marks (ARE)	1-	Grade							
Sys		Spring	11 – 18 marks (ARE)	1=	KPI							
Scoring System		Shiiig	TT TO III air (AVE)	1-	KPI							
Scor		Summer 19 – 25 marks (ARE) 1+						•				
- /	52%	of objectives met a	at G (Greater Depth)	1G								

# **Year 2 Maths**



Key:  X - For met target at ARE level.  G - For met target at Greater Depth level.  KPI - Key Performance Indicator							Aut2	Spr1	Spr2	Sum1	Sum2
	Children can demonstrate their methods for solving mathematical problems using concrete apparatus or pictorial representations.  1 Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward.										
	1 KPI										
	2 KPI	Recognise, find, nam parts must be equal									
	3 KPI	Recognise the place tens and ones. Comp									
	4 KPI	Recall all number bo		se these to reas	on with calculate bonds to and						
	5 KPI	Recall and use multip			10 multiplication tables, including						
	6		pers to at least 100 in nume	erals and in word	ls (phonetically plausible).						
	7	Add and subtract nur	mbers using concrete objec	ts, pictorial repr	esentations, and mentally,						
er			) ± 0: T0 ± T0: 0 ± 0 ± 0 (re								
Number	8	calculations and solve		s being able to u	d subtraction and use this to check se estimation to check answers are						
2	9	Solve problems with		ising objects, pic	torial representations, numbers, tal & written methods.						
	10	•	ving multiplication and dividention multiplication and division		rials, arrays, repeated addition, problems in contexts.						
	11	Show that addition o subtraction and divis									
	12	Can quickly recall do									
	13	Recognise the equiva									
	14	Solve simple problem same unit, including									
	15	Calculate mathematic and write them using									
	16	Recognise and use sy value and find differen									
е	17	Choose and use appr length/height in any									
Measure	18		ctical situation where all numbers ermometer or measures capacities								
ğ	19		e hands on a clock face to show th).								
	20		nce intervals of time and kn		of minutes in an hour and the						
	21	Identify, describe and	d sort the properties of 3-D	•	g the number of edges, vertices example, a circle on a cylinder and						
Geometry	22	a triangle on a pyram									
om		symmetry in a vertical	al line.								
3e(	23		ombinations of mathematic	-	·						
)	24	of right angles for qu	arter, half and three-quarte	er turns (clockwi							
S	25	Construct, interpret,		stions about sim	ple pictograms, tally charts, block						
Ē	Not	at age expected	0 – 5 marks (ARE)	1+	Total						
/ste		Autumn	6 – 10 marks (ARE)	2-	Grade						
Scoring System		Spring	11 – 18 marks (ARE)	2=	KPI						
Cori		Summer 19 – 25 marks (ARE) 2+					1	1			i
Š	52% of objectives met at G (Greater Depth) 2G										

# **Year 3 Maths**



Key:       X - For met target at ARE level.       KPI - Key Performance Indicator         G - For met target at Greater Depth level.							Aut2	Spr1	Spr2	Sum1	Sum2		
Children can demonstrate their methods for solving mathematical problems using concrete apparatus or pictorial													
	representations.												
Терг	1 KPI	Count from 0 in mu											
	2 KPI	Recognise the place and compare and o											
	3	Read and write nur											
	KPI 4				t number and one; a three-digit								
	KPI		three-digit number and	-	t number and one, a timee-digit								
	5 KPI	Recall and use mult	tiplication and division fa	cts for the 3, 4	and 8 multiplication tables.								
	6	Estimate the answe addition and subtra	r to a calculation and use ction.	inverse operati	ons to check answers for								
j.	7		•		nal written methods of column								
qu	8		ction (introducing regrou		or multiplication and division,								
Number					to formal written methods.								
Z	9		rd problems, including mition and subtraction.	issing number p	roblems, using number facts and								
	10				roblems, using number facts and								
	11	Count up and down	more complex division and multiplication, for example 3 x 4 = 12 so 3 x 40 = 120.  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.										
	12	Recognise, find and											
	40	fractions and non-u											
	13	Add and subtract from = %).											
	14	Compare and order with small denomin											
	15	Add and subtract ar											
	16	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (I/mI).											
	17	To measure and wo	S.										
Measure	18		Tell and write the time to the nearest five minutes on an analogue clock. Comparing time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m., p.m., morning,										
ea	19	Read and write Ron											
Σ	20				of days in each month, year and								
	21	. ,	of events [for example to	calculate the ti	me taken by particular events or								
7	22	Draw 2-D shapes an	nd make 3-D shapes using ns and describe them.	modelling mate	erials; recognise 3-D shapes in								
Geometry	23			can identify righ	nt angles (how many make a ½. ¾								
oır		Recognise angles as a property of shape and can identify right angles (how many make a ½, ¾ of a turn or complete turn); identify whether angles are greater than or less than a right											
Ge	0.4	angle.	1 0 10 1										
_	24	-	and vertical lines and pairs		·								
S	25	Present data, interp	oret and solve questions u	sing bar charts,									
E	Not	at age expected	0 – 5 marks (ARE)	2+	Total								
Scoring System		Autumn	6 – 10 marks (ARE)	3-	Grade								
		Spring	11 – 18 marks (ARE)	3=	KPI								
Scol		Summer 19 – 25 marks (ARE) 3+											
S	52%	of objectives met a											

# **Year 4 Maths**



Key:  X - For met target at ARE level.  KPI - Key Performance Indicator								Spr1	Spr2	Sum1	Sum2	
X - For met target at ARE level. KPI - Key Performance Indicator  G - For met target at Greater Depth level.  Children can demonstrate their methods for solving mathematical problems using concrete apparatus or pictorial											Sul	
	Children can demonstrate their methods for solving mathematical problems using concrete apparatus or pictorial representations.											
	1 KPI	Count in multiples										
	2 KPI	Recognise the place and ones) and roun										
	3	Add and subtract n										
	KPI 4		and subtraction where ap n and division facts for m		bles up to 12 × 12.							
	KPI 5	Multiply two digits	and three digit numbers	hu a ana digit n	umber using formal written							
	KPI	layout.	and three-digit numbers i	oy a one-digit n	umber using formal written							
	6	Count backwards th	nrough zero to include neg	gative numbers.								
	7	Find 1000 more or I	ess than a given number a	and order and c	ompare numbers beyond 1000.							
Number	8		own and derived facts to id 1; dividing by 1; multiply									
nm	9	Recognise and use f		mig together th	ree numbers.							
Z	10		olving increasingly harder ure involving fractions and		culate quantities or divide							
	11	Solve calculation pr	oblems involving two-ste	o addition, subt	raction, multiplication and							
			division in contexts, deciding which operations to use and why, and estimate and use inverse operations to check answers to a calculation.									
	12	Recognise and show of tenths, hundredt										
	13	Count up and down										
	14	or a one-digit numb  Add and subtract fra										
	15	Find the effect of di										
	16	the digits in the ans Round decimals wit										
	47	with the same num										
	17 18		nan Numerals to 100 (I to ifferent units of measure)		lometre to metre; hour to							
ure		minute; minutes to	seconds; years to months	5).								
Measu	19	Measure and calcul and metres and are	including squares) in centimetres res.									
Me	20		ng money in pounds and pence.									
	21	Read, write and con problems duration		gue and digital í	12- and 24-hour clocks and solve							
У	22				rals and all types of triangles, e acute and obtuse angles up to							
Geometry		180 degrees.										
or	23		nmetry in 2-D shapes pres figure with respect to a li		nt orientations and complete a							
Ğ	24	Describe positions a		down movem	ents on a 2-D grid as coordinates							
- 10	25	Present, interpret a	nd solve problems involvi	ng discrete and	continuous data using							
S		appropriate graphic graphs.	cal methods, including bar	charts, pictogra	ams, tables, time and other							
u	Not	at age expected	0 – 5 marks (ARE)	3+	Total							
yster		Autumn	6 – 10 marks (ARE)	4-	Grade							
Scoring System		Spring	11 – 18 marks (ARE)	4=	KPI							
Scori		Summer	19 – 25 marks (ARE)	4+					<u> </u>	<u> </u>		
	52%	of objectives met a										

# **Year 5 Maths**



Key:  X - For met target at ARE level.  G - For met target at Greater Depth level.							Aut2	Spr1	Spr2	Sum1	Sum2
Children can demonstrate their methods for solving mathematical problems using concrete appara											
representations.											
	1 KPI	Read, write, order, compare and know place value of numbers to at least 1 000 000 and be able to round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000.									
	2 KPI	Add and subtract numbers mentally with increasingly large numbers and whole numbers with more than 4 digits, including using formal written methods (column addition and subtraction).									
	3 KPI	Multiply / divide nur digit x 1 or 2 digit, ar									
	4 KPI	Identify, name and v tenths and hundredt									
	5 KPI		cimal numbers, fractions a es including solving probler		and find percentages and						
	6	Round decimals with	two decimal places to the	nearest whole n	umber and to one decimal place.						
_	7	Multiply and divide v	vhole numbers and those in	volving decimal	s by 10, 100 and 1000.						
Number	8	Recognise and use so cubed (2 <sup>3</sup> ).	quare numbers and cube nu	mbers, and the	notation for squared (2²) and						
Nul	9	Solve problems invol	ving addition, subtraction, r g knowledge of factors and	•	nd division and a combination of res and cubes.						
	10	multiples of the same	e number.		ators are the same or are all						
	11	including through zer	ro, in steps of powers of 10	for any given ηι							
	12	Recognise and conve and multiply mixed n diagrams).									
	13	Read, write, order and compare numbers with up to three decimal places and solve problems involving up to 3 decimal places (Example, $0.71 = \frac{71}{100} = 71\%$ ).									
	14	Can identify multiple and use prime numb a number up to 100 i									
	15	Read Roman Numera									
е	16	Convert between differences between									
easure	17	Measure and calcula	te the perimeter of compos	ite rectilinear sh	napes (cm/m) and calculate and lestimate area of irregular shapes.						
Me	18		example, using 1 cm <sup>3</sup> bloc		ids (including cubes) and capacity						
	19		ns to solve problems involvi lecimal notation, including s	-	r example, length, mass, volume, ersions.						
	20	Identify 3-D shapes, i	including cubes and other c	uboids, from 2-I	O representations (e.g. nets).						
>	21	Estimate, compare, r	neasure and draw acute, ob	tuse and reflex	angles.						
Geometry	22		f rectangles and knowledge ted facts and find missing le		oint (360°) or on a straight line es.						
seon	23				asoning about equal sides and						
9	24	Identify, describe and	d represent the position of a	•	g a reflection or translation, using						
S	25	Complete, read and i			netables, and line graphs to solve						
ч	Not	at age expected	0 – 5 marks (ARE)	4+	Total						
ster		Autumn	6 – 10 marks (ARE)	5-	Grade						
Scoring System		Spring	11 – 18 marks (ARE)	5=	KPI						
cor		Summer	19 – 25 marks (ARE)	5+		1	<u> </u>	1	1	1	
S	52% of objectives met at G (Greater Depth) 5G										
		,	,								

## **Year 6 Maths**



	or met t	arget at ARE level. arget at Greater Dep		Performance In		Aut1	Aut2	Spr1	Spr2	Sum1	Sum2
Child	dren ca	n demonstrate thei			problems using concrete appara	atus c	or pict	torial			
тері	esentat 1		and compare numbers up	to 10 000 000	and determine the value of each						
	KPI+IF	digit and round any									
	2 KPI+IF	Multiply and divide the formal written									
	3				multiplication and division and						
	KPI+ IF	use estimation to clearee of accuracy.		ons and detern	nine, in context, an appropriate						
	4	Identify and use co	mmon factors to simplify	fractions; use	common multiples to express						
	KPI+IF				them, including fractions > 1.						
	5 KPI+IF		oblems involving the calc n as 15% of 360) and the u								
	6 IF	Use their knowledge operations.	e of the order of operation	ns to carry out	calculations involving the four						
r	7 IF	Add and subtract fra concept of equivale		ominators and	mixed numbers, using the						
Number	8			ing the answer	in simplest form and multiply						
Ш	IF		actions by whole number								
N	9 IF		with division and calculat fraction [for example, $\frac{3}{2}$ ).	e decimal fract	ion equivalents (for example,						
	10			en to three de	cimal places and multiply and						
	IF		10, 100 and 1000 giving ar								
	11	Multiply and divide									
	12	Solve problems usin	ng equivalences between s	simple fractions	s, decimals and percentages,						
	IF	including in differen									
	13	Use simple ratio and									
	14	Use negative numbers in context and calculate intervals across 0.									
	15	Generate and describe linear number sequences including across zero.									
	16 IF	Use simple formula									
	17	To perform mental calculations, including with mixed operations and large numbers.									
re	18 IF	, , , ,									
Su	19										
Measu	IF	Know formulae to find the area or volume of shapes (including area of parallelograms & triangles) and recognise that shapes with the same areas can have different perimeters and vice versa.									
	20				y complex properties and use						
1		them to draw 2-D shapes using given dimensions and angles: recognise, describe and build simple 3-D shapes, including making nets.									
itr)	21			edge of angles :	at a point, on a straight line, or						
me	IF	vertically opposite.	so and rength aoing known	sage of angles (	at a point, on a straight line, or						
Geometry	22		-	radius, diamete	er and circumference and know						
)	23			rdinate plane, r	reflect them in the axes: use all						
	24	· · · · · · · · · · · · · · · · · · ·	ruct pie charts and line gra	aphs and use th	ese to solve problems including						
S			miles and kilometres.								
	25	Calculate and interp	oret the mean as an avera	ge.							
π	Not	at age expected	0 – 5 marks (ARE)	5+	Total						
/stei		Autumn	6 – 10 marks (ARE)	6-	Grade						
Scoring System		Spring	11 – 18 marks (ARE)	6=	KPI						
corì		Summer	19 – 25 marks (ARE)	6+		<u> </u>	<u> </u>	]			
S	52% of objectives met at G (Greater Depth) 6G							201	18.19		
	-	52% of objectives met at G (Greater Deptil)									-