

Billingshurst Primary School

Long term maths plan

Year: 1

Year 1	All	lessor	ns will prov	ide opportı	unities to ap	ply skills to	solve prob	ems	5.					
	We	eek 1	Week 2	Week 3	Week 4	Week 5	Week 6	W	eek 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Nu	mber:	Place Valu	e (within 10))	Number:	Addition	Ge	eometry:	Shape		Number	:	Consolidation
	to	includ	e money			and Subt	raction					Place va	ue (within	
						to includ	e money					20)		
Pupils will be explicitly taught to:		backy from count in nut twos, giver and c ident objec includ langu than read	t to and acre wards, begin any given n t, read and merals; cou fives and to na number, one less tify and rep tts and picto ding the num age of: equ (fewer), mo and write n merals and	nning with (umber write numb nt in multip ens identify on resent num orial represe mber line, a al to, more ost, least umbers from	o or 1, or ers to 100 les of e more bers using entations nd use the than, less	 interpresentation interpresentation addition addition addition addition subtrander signs representation representation representation add addition 	ematical ments ving on (+), action (–) quals (=) sent and umber s and ed action facts n 20 nd subtract ligit and		2-D and 2-D sha rectang circles a 3-D sha cuboids	d 3-D shape ipes [for ex	ng squares), es] ample, cubes),	 across forwards backerds begin or 1, giver coun write to 100 nume in more twoss giver ident more less ident repres 	erals; count ultiples of , fives and n a number, ify one e and one ify and	

		 solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 =* - 9. 			 objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least read and write numbers from 1 to 20 in numerals and words. recognise and know the value of different denominations of coins and notes
Spring	Number: Addition and Subtraction (within 20) to include money	Number: Place Value (within 50) Multiples of 2, 5 and 10 to be included Good opportunity to include money!	Measure: Length and height	Measure: weight and volume	Number: Multiplication and Division (Reinforce multiples of 2, 5 and 10 to be included) Good opportunity to include money! (2p, 5p, 10p)
Pupils will be explicitly	 read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs 	(2p, 5p, 10p) □ count to and across 100, forwards and backwards,	 compare, describe practical problems lengths and hei example, long/ 	for: ights [for	 solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial

taught	represent and use number bonds and		beginning with 0		longer/shorter, tall/short,	representations and arrays with
to:	related subtraction facts within 20		or 1, or from any		double/half]	the support of the teacher.
	add and subtract one-digit and two-		given number		 mass/weight [for example, 	recognise and know the value of
	digit numbers to 20, including zero		count, read and		heavy/light, heavier than,	different denominations of coins
	solve one-step problems that involve		write numbers		lighter than]	and notes
	addition and subtraction, using		to 100 in		 capacity and volume [for 	
	concrete objects and pictorial		numerals; count		example, full/empty, more	
	representations, and missing number		in multiples of		than, less than, half, half full,	
	problems such as		twos, fives and		quarter]	
	7 =* - 9.		•			
	_	_	tens		 time [for example, quicker, 	
	recognise and know the value of		given a number,		slower, earlier, later]	
	different denominations of coins and		identify one		measure and begin to record	
	notes		more and one		the following:	
			less		lengths and heights	
			identify and		mass/weight	
			represent		capacity and volume	
			numbers using		time (hours, minutes, seconds)	
			objects and		sequence events in	
			pictorial		chronological order using	
			representations		language [for example, before	
			including the		and after, next, first, today,	
			number line, and		yesterday, tomorrow, morning,	
			use the language		afternoon and evening]	
			of: equal to,		recognise and use language	
			more than, less		relating to dates, including days	
			than (fewer),		of the week, weeks, months and	
			most, least		years	
			read and write	•	tell the time to the hour and	
			numbers from 1		half past the hour and draw the	
			to 20 in		hands on a clock face to show	
			numerals and		these times.	
			words.			
			recognise and			
		-	know the value			
			of different			

				denominations of coins and notes		
Summer	Number: Fractions	Geometry: Position and direction		oer: Place value in 100)	Opportunities to re-visit priorities	shown by assessments.
Pupils will be explicitly taught to:	 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. 	 describe position, direction and movement, including whole, half, quarter and three quarter turns. 	foi ba wi giv co nu an giv on an giv on an an ide nu an re fin fro an an c fro an va de	unt to and across 100, rwards and ckwards, beginning th 0 or 1, or from any ven number unt, read and write imbers to 100 in imerals; count in ultiples of twos, fives d tens ven a number, identify ie more and one less entify and represent imbers using objects d pictorial presentations cluding the number e, and use the nguage of: equal to, ore than, less than ewer), most, least ad and write numbers om 1 to 20 in numerals id words. cognise and know the lue of different enominations of coins id notes		

*Please use this order but you can move on to the next unit when the children are ready. You do not have to spend all of the given time on each unit. *Time activities to be carried out daily as part of talking about the daily timetable, talking about the date and telling the time to the hour and half past the hour.

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	imary school	Lor	ng term	maths	plan							Yea	r: 2	
Year 2	practice a reading a	t this early nd spelling	v stage will ai knowledge a	d fluency. at key stag	e number bonds Pupils should reade e 1. oply skills to solve	d and :	spell mathen		-					
	Week 1	Week 2	Week 3	Week 4	Week 5	We ek 6	Week 7	We	ek 8	Week 9	Week 10	Week 11	Week 12	
Autumn	Number: money	Place value	e to include		lumber: Addition and Subtraction to				Number: Multiplication and Division					
Pupils will be explicitl y taught to	from (any n backw recog each (numb identi	D, and in te umber, for vard	ward and ace value of vo-digit nes) ent and	 solve subtr using repre involv meas apply 	problems with a action: concrete objects sentations, includ ving numbers, qu	and p ding th antitie ng knc	oictorial nose es and owledge of	_	and 10 n even nu calculat division using th show th	multiplication mbers e mathema within the ne multiplication mat multiplication	on tables, inc tical stateme multiplication ation (×), divis cation of two	luding recog nts for multi n tables and sion (÷) and o numbers cau	ts for the 2, 5 nising odd and plication and write them equals (=) signs n be done in any nber by another	

	 different repressincluding the numbers from Compare and or numbers from Couse <, > and = since at least 100 in not in words use place value facts to solve provide to solve provide the solve provide to solve provide the solve provide to solve provide the solve provide the solve provide to solve provid	imber line oder) up to 100; gns numbers to umerals and number oblems.	facts t relate add at concre repres includ a two a two two two one-d show be do subtra anoth recog relatio subtra calcul	-digit number and ones -digit number and tens wo-digit numbers I adding three ligit numbers that addition of two numbers can ne in any order (commutative) and action of one number from ler cannot nise and use the inverse onship between addition and action and use this to check ations and solve missing number	materia	ls, arrays, repeated addit cation and division facts,	cation and division, using ion, mental methods, and including problems in
Spring	Statistics	Geometry:	proble	Number: Fractions	Measurement Length and	Position and direction	Consolidation
D ''		Properties of Sh	ape		height		
Pupils	interpret and	identify and		 recognise, find, name and 	 choose and use 	 order and arrange 	
will be	construct	describe the		write fractions 31, 41, 42	and use	combinations of	
explicitl	simple	properties of		and 4 3 of a length, shape, set	ate	mathematical	
y taught	pictograms,	shapes, inclu the number	-	of objects or quantity	standard	objects in patterns	
to:	tally charts,	sides and line		 write simple fractions for avample 2.1 of 6 = 2 and 	units to	and sequences use mathematical 	
	block diagrams			example, 2 1 of 6 = 3 and recognise the equivalence of	estimate		
	and simple tables	symmetry in vertical line	a	4 2 and 2 1.	and	vocabulary to describe position,	
	□ ask and	 identify and 			measure	direction and	
	answer simple	describe the			length/h	movement,	
	questions by	properties of			eight in any	including	
		shapes, inclu			direction	movement in a	
	counting the	snapes, inclu	Jaing I		unection		

	objects in e category ar sorting the categories I quantity ask and answer questions about total and compa categorical data.	nd and and by ider by shap surf shap exa on a on a a tri ring pyra com sort D ar shap even obje		Maacuramant	Quantumiliante	to the nearest appropri ate unit, using rulers compare and order lengths, record the results using >, < and =	distinguishing between rotation as a turn and in terms of right angles for quarter, half and three- quarter turns (clockwise and anticlockwise).	
Summer		Measurement Mass	Measurement Capacity	Measurement Time	Opportunities to	re-visit priorit	ties shown by assessmen	nts.
Pupils will be explicitl y taught to:	 and measure (litres/ml) to scales, there compare and the results recognise and (p); combine find differees same amoute solve simpleaddition and including gional compare are are tell and write quarter pase 	re mass (kg/g) to the nearest mometers and order mass using >, < and and use symbol ne amounts to nt combinatio unts of money e problems in d subtraction iving change nd sequence in te the time to	; temperature appropriate un d measuring ve , volume/capa = ols for pounds (make a particu ons of coins that a practical cor of money of the ntervals of time five minutes, it and draw the	nit, using rulers, essels city and record £) and pence ular value it equal the ntext involving ne same unit, e				

know the number of minutes in an hour and the	
number of hours in a day.	

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Primary	school LC	ong te	erm n	naths	plan	l				Ye	ear: 3		
Year 3	All lessons wi	ill provid	e oppor	tunities	to apply	skills to solv	e problems.						
	Week 1	Week 2	Wee k 3	Week 4	Wee k 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
Autumn	Number: Plac include mone		to	Number: Addition and Subtraction to include money				Number: Multiplication and Division					
Pupils will be explicitly taught to:	 count from of 4, 8, 50 10 or 100 than a give recognise of each digit numbilitiens, ones compare anumbers of 	and 100 more or en numb the place git in a th ber (hund s) and orde	; find less er e value nree- dreds, r	inclu a th a th a th a th adc three met	uding: ree-digi nree-dig nree-dig l and su ee digits	otract number t number and it number and it number and btract numbe , using formal columnar add	ones I tens I hundreds rs with up to written	8 multip write ar multiplic they known number method solve pr involvin scaling p	olication table ad calculate m cation and div ow, including s, using ment s oblems, inclu g multiplicatio problems and	s nathematical s	tatements for e multiplication numbers time ssing to formation number proble n, including po nce problems	on tables that s one-digit al written ems, psitive integer	

	 identify, represent estimate number different represent read and write number up to 1000 in number problem practical problem practical problem involving these ic amounts of mone give change, usin and p in practical contexts 	rs using and ntations ans umbers solv merals num olve fact s and add ns deas. ct ey to ng both £	mate the answer to a calculation use inverse operations to check wers re problems, including missing nber problems, using number s, place value, and more complex ition and subtraction.		
Spring	Statistics	Measurement: Length and	Number: Fractions		Measurement: Time
		perimeter			
Pupils will be explicitly taught to:	 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 	 measure the perimeter of simple 2-D shapes 	 count up and down in tenths; that tenths arise from dividing into 10 equal parts and in divid digit numbers or quantities by recognise, find and write fract discrete set of objects: unit fra nonunit fractions with small denominators recognise and use fractions as unit fractions and non-unit fra small denominators recognise and show, using diag equivalent fractions with smal denominators add and subtract fractions with denominator within one whole example, 7 5 + 7 1 = 7 6] compare and order unit fraction 	an object ding one- 10 ions of a actions and numbers: ctions with grams, I h the same e [for ons, and	 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].

	scaled bar			 solve problems that involve all of the
	charts and			above.
	pictograms			
	and tables.			
Summer	Measureme	Geon	netry:	Opportunities to re-visit priorities shown by assessments.
	nt: mass		erties of	
	and	shape		
	capacity	_		
Pupils will be	 measure, 	•	draw 2-	2-D
explicitly taught	compare,	add	shapes	s and
to:	and subtr	act:	make 3-	3-D
	lengths		shapes	S S
	(m/cm/m	m);	using	
	mass (kg/	g);	modelli	ling
	volume/c	apaci	materia	ials;
	ty (l/ml)		recogni	iise 3-
			D shape	pes in
			differer	ent la
			orienta	ations
			and	
			describ	pe la
			them	
			 recogni 	
			angles a	
			propert	
			shape o	
			descript	
			of a tur	
			 identify 	
			right an	
			recogni	
			that two	
			right an	
			make a	
			turn, th	hree

make three
quarters of
a turn and
four a
complete
turn;
identify
whether
angles are
greater than
or less than
a right angle
□ identify
horizontal
and vertical
lines and
pairs of
perpendicul
ar and
parallel
lines.
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Billingshurst Primary School

Long term maths plan

Year: 4

Year 4	precision an word readin All lessons v	By the end of year 4, pupils should have memorised their multiplication tables up to and including the 12 x 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. All lessons will provide opportunities to apply skills to solve problems.													
	Week 1	Wee k 2	Week 3	5	Week 4	Wee k 5	Week 6	Week	k	Week 8		Week 9	Week 10	Wee k 11	Week 12
Autumn	Number: Place value to include Money				Number: Addition and Subtraction to include money				Measurement Number: Multiplication and Division : Length and perimeter						
Pupils will be explicitly taught to:	 7, 9, 25 a find 100 than a g count ba through negative recognis value of four-dig (thousan tens, and order an numbers identify, estimate differentiation 	 Count in multiples of 6, 7, 9, 25 and 1000 find 1000 more or less than a given number count backwards count backwards through zero to include negative numbers recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) order and compare numbers beyond 1000 			o 4 digits nethods o ubtractic stimate a o check a olve addi tep prob	using the of column of columns of column	numbers wi he formal wi nnar addition e appropriat inverse ope to a calculat d subtraction contexts, de and methoo	ritten n and ee rations tion n two- eciding		Convert between different units of measure [for example , kilometr e to metre; hour to minute] estimate , compare and calculat e different		 recall multiplication and division facts for multiplication tables up to 12 × 12 use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers recognise and use factor pairs and commutativity in mental calculations multiply two-digit and three-digit numbers by a one-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, integer scaling problems and harder correspondence problems such as n objects are connected to m objects. 			

	th 10 sc pr in au la la tc tc th ch	bund any number the nearest 10, 100 200 200 200 200 200 200 200 200 200	that pove gly pers rals know the				s, inc gr pc an pe	ence		
Spring		Number: Multiplication and Division	Meas nt: Area	sureme	Frac	tions		Decim	als to include money	Consolidation
Pupils will be explicitly taugh to:	it "	recall multiplication and division facts for multiplication tables up to 12 × 12 use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1;	 me cal per a ro figu (ind squ cer and of r sha cou 	easure and culate the rimeter of ectilinear ure cluding uares) in ntimetres d metres d the area rectilinear apes by unting uares		recognise and show, using diagrams, families of comm equivalent fractions count up and down in hundredths; recognise that hundredths arise when divi an object by one hundred a dividing tenths by ten. solve problems involving increasingly harder fraction calculate quantities, and fractions to divide quantities including non-unit fractions where the answer is a who number I add and subtract fractions with the same denominator	t iding and ns to es, s le		recognise and write decimal equivalents of any number of tenths or hundredths recognise and write decimal equivalents to 4 1 , 2 1 , 4 3 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 round decimals with one decimal place to the nearest whole number compare numbers with the same number of decimal places up to two decimal places	

altriature la A	
dividing by 1;	 solve simple measure and money
multiplying	problems involving fractions and
together	decimals to two decimal places.
three	
numbers	
 recognise and 	
use factor	
pairs and	
commutativit	
y 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,	
integer scaling	
problems and	
harder	
corresponden	

	ce proble such as n objects ar	e			
	connected				
C	m objects	Statistics	Coometr	Coorretau	
Summer	Time	Statistics	Geometr y:	Geometry: Position and	Opportunities to re-visit priorities shown by assessments.
			y. Propertie	Direction	
			s of		
			shape		
Pupils will be	read, write	interpret	compare and	describe positions	
explicitly taught	and convert	and present	classify	on a 2-D grid as	
to:	time	discrete	geometric	coordinates in	
	between	and	shapes,	the first quadrant	
	analogue and	continuous	including	describe	
	digital 12-	data using	quadrilaterals		
	and 24-hour	appropriate	and triangles,	between	
	clocks 🛛 solve	0	based on their	•	
	problems	methods,	properties and		
	involving	including	sizes 🛛 identify	-	
	converting	bar charts	acute and	left/right and	
	from hours to		obtuse angles		
	minutes;	graphs. 🛛	and compare	specified points	
	minutes to	solve	and order	and draw sides to	
	seconds; years to	comparison	angles up to two right	complete a given	
	months;	, sum and difference	angles by size	polygon.	
	weeks to	problems	identify lines	-	
	days.	using	of symmetry	,	
		information	in 2-D shapes		
		presented	presented in		
		in bar	different		
		charts,	orientations 🛛		
		pictograms,	complete a		
		tables and	simple		

other graphs.	symmetric figure with	
	respect to a specific line of	
	specific line of symmetry.	

a ^{ti}	Billingshurst Primary School Long term maths plan Year: 5							
Year 5	All lessons will provid Week 1 Week 2	e opportunities to appl Week 3 Week 4	y skills to solve pro Week 5	blems. Week 6 Week 7	Week 8 Week 9	Week 10 Week 11 Week 12		
Autumn	Number: Place value	Number: Addition and Subtraction	Statistics	Number: Multiplication and Division	Perimeter and Area	Number: Multiplication and Division		
Pupils will be explicitly taught to:	 read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit count forwards or backwards in steps of powers of 10 for any 	 add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) add and subtract numbers mentally with 	 solve comparison, sum and difference problems using information presented in a line graph complete, read and 	 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 	 measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres calculate and compare the area of rectangles 	 identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers establish whether a number up to 100 is prime 		

	1							
given number up		increasingly large		interpret	and composite	(including		and recall prime numbers
to 1 000 000		numbers	i	information	(nonprime)	squares), and		up to 19
 interpret 		use rounding to	i	in tables,	numbers	including using		multiply numbers up to 4
negative		check answers to	i	including	establish	standard units,		digits by a one- or two-digit
numbers in		calculations and	t	timetables.	whether a	square		number using a formal
context, count		determine, in the			number up to	centimetres		written method, including
forwards and		context of a			100 is prime and	(cm2) and		long multiplication for two-
backwards with		problem, levels of			recall prime	square metres		digit numbers
positive and		accuracy			numbers up to	(m2) and		multiply and divide
negative whole		solve addition			19	estimate the		numbers mentally drawing
numbers,		and subtraction			multiply	area of irregular		upon known facts
including		multi-step			numbers up to 4	shapes	•	divide numbers up to 4
through zero		problems in			digits by a one-			digits by a one-digit
round any		contexts, deciding			or two-digit			number using the formal
number up to 1		which operations			number using a			written method of short
000 000 to the		and methods to			formal written			division and interpret
nearest 10, 100,		use and why.			method,			remainders appropriately
1000, 10 000 and					including long			for the context
100 000					multiplication for		•	multiply and divide whole
solve number					two-digit			numbers and those
problems and					numbers			involving decimals by 10,
practical					multiply and			100 and 1000
problems that					divide numbers			recognise and use square
involve all of the					mentally drawing			numbers and cube
above					upon known			numbers, and the notation
read Roman					facts			for squared (2) and cubed
numerals to					divide numbers			(3)
1000 (M) and					up to 4 digits by			solve problems involving
recognise years					a one-digit			multiplication and division
written in Roman					number using			including using their
numerals.					the formal			knowledge of factors and
					written method			multiples, squares and
					of short division			cubes
					and interpret			solve problems involving
					remainders			addition, subtraction,
			•					

t □ n d n t	appropriately for the context multiply and divide whole numbers and those involving	multiplication and division and a combination of these, including understanding the meaning of the equals sign solve problems involving
1 • r u n	decimals by 10, 100 and 1000 recognise and use square numbers and	multiplication and division, including scaling by simple fractions and problems involving simple rates
a fi a □ s	cube numbers, and the notation for squared (2) and cubed (3) solve problems	
n a ir t	nvolving multiplication and division ncluding using their knowledge of factors and	
n s c □ s	multiples, squares and cubes solve problems	
a s n a	nvolving addition, subtraction, multiplication and division and	
t	a combination of these, including understanding	

		the equivalent of the equivale	lication vision, ng scaling ple ns and ms ng simple		
Spring	Fractions	Number: Decimals and	Number: Decimals	Geometry: Properties of shapes	-
Pupils will be explicitly taught to:	 compare and order fractions whose denominators are all multiples of the same number identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, 5 2 + 5 4 = 5 6 = 1 5 1] add and subtract fractions with the same denominator and denominators that are multiples of the same number multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams 	 percentages read and write decimal n [for example, 0.71 = 100 recognise and use thousa them to tenths, hundred equivalents round decimals with two the nearest whole numbe place read, write, order and co up to three decimal place solve problems involving decimal places recognise the per cent sy understand that per cent of parts per hundred', an as a fraction with denom decimal solve problems which reco percentage and decimal e 1, 51, 52, 54 and thos denominator of a multipl 	71] andths and relate ths and decimal decimal places to er and to one decimal mpare numbers with es number up to three mbol (%) and relates to 'number d write percentages inator 100, and as a quire knowing equivalents of 2 1, 4 e fractions with a	 identify 3-D shapes, including cubes and other cuboids, from 2- D representations know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles draw given angles, and measure them in degrees (o) identify: angles at a point and one whole turn total 360o 	Geometry: Position and direction identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.

			 angles at a point on a straight line and 2 1 a turn (total 1800) other multiples of 900 use the 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.
Summer	Measurement: converting units	Measuring volume	Opportunities to re-visit priorities shown by assessments.
Pupils	 converting units convert between 	 estimate volume 	
will be	different units of	[for example,	
explicitly	metric measure	using 1 cm3	
taught	(for example,	blocks to build	
to:	kilometre and	cuboids (including	
	metre;	cubes)] and	
	centimetre and metre;	capacity [for example, using	
	centimetre and	water	
	millimetre; gram	mater	
	and kilogram;		
	litre and		
	millilitre)		

understand and	
use approximate	
equivalences	
between metric	
units and	
common	
imperial units	
such as inches,	
pounds and	
pints]	
 solve problems 	
involving	
converting	
between units of	
time	
 use all four 	
operations to	
solve problems	
involving	
measure using	
decimal	
notation,	
including scaling.	

Billingshurst Primary School



Long term maths plan

Year: 6

Year 6	wo	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. All lessons will provide opportunities to apply skills to solve problems.												
	We	eek 1	Week 2	Week 3	Week 4	Week 5	Week 6	W	eek 7	Week 8	Week 9	Week 10	Week	Week
Autumn Number: Place Value			Number: Addition, Subtraction, Multiplication, Division				Fra	Fractions					1112Geometry:Position andDirection	
Pupils will be explicitly taught to:		 and compare numbers up to 10 000 000 and determine the value of each digit round any whole number to a required degree of accuracy I use negative numbers in context, and calculate intervals across zero 		digit the muli divid digit writ inte rem app divi digit met app acco perf with num	digits by a two-digit 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 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				 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, 4 1 × 2 1 = 8 1] divide proper fractions by whole numbers [for example, 3 1 ÷ 2 = 6 1] 2 associate a fraction with division and calculate decimal fraction equivalents [for example, 8 3] 				the f coor (all f quac draw tran simp on tl coor plan	tions on full dinate grid our drants) v and slate ole shapes ne dinate e, and ect them in

		problems in contex operations and me solve problems inv	out calculations operations subtraction multi-step its, deciding which thods to use and why olving addition, lication and division heck answers to itermine, in the m, an appropriate	 decimal place use written di the answer ha solve problem rounded to sp recall and use 	digit numbers with up t s by whole numbers ivision methods in case as up to two decimal pl ns which require answe pecified degrees of accu e equivalences betweer imals and percentages, ontexts.	es where aces ers to be uracy n simple
Spring	Number: Decimals to	Number:	Number: Algebra	Measurement	Measurement:	Number: Ratio
	include money	Percentages		converting	Perimeter, Area	
				units	and Volume	
Pupils will			 use simple 	solve	 use, read, write 	 solve problems
be			formulae	problems	and convert	involving the
explicitly			 generate and 	involving	between	relative sizes of
taught to:			describe linear	the	standard units,	two quantities
			number	calculation	converting	where missing
			sequences	and	measurements	values can be
			 express missing 	conversion	of length, mass,	found by using
			number	of units of	volume and	integer
			problems	measure,	time from a	multiplication
			algebraically	using	smaller unit of	and division
			 find pairs of 	decimal	measure to a	facts
			numbers that	notation up	larger unit, and	 solve problems
			satisfy an	to three	vice versa, using	involving the
			equation with	decimal	decimal	calculation of
			two unknowns	places	notation to up	percentages
			 enumerate 	where	to three decimal	[for example, of
			possibilities of	appropriate	places	measures, and
			combinations of		 convert 	such as 15% of
			two variables.		between miles	360] and the
					and kilometres	use of

Summor	Goometru	Chatication	Procenturities to no visit activities to no visit activity activities to no visit activiti activities to no visit activities to no visit activities to no v
Summer	Geometry: Properties of Shapes	Statistics	Opportunities to re-visit priorities shown by assessments.
Pupils will	 Draw 2-D shapes 	 Interpret and 	
•	•		
be	using given	construct pie	
explicitly	dimensions and	charts and line	
taught to:	angles	graphs and use	

	recognise,	these to solve	
	describe and	problems	
	build simple 3-D	Calculate and	
	shapes, including	interpret the	
	making nets	mean as an	
•	compare and	average.	
	classify geometric		
	shapes based on		
	their properties		
	and sizes and find		
	unknown angles		
	in any triangles,		
	quadrilaterals,		
	and regular		
	polygons		
	illustrate and		
	name parts of		
	circles, including		
	radius, diameter		
	and		
	circumference		
	and know that		
	the diameter is		
	twice the radius		
	recognise angles		
	where they meet		
	at a point, are on		
	a straight line, or		
	are vertically		
	opposite, and find		
	missing angles.		

We need to finish the curriculum by Easter. Look at priorities from analysis and adapt in consultation with Y6 team.