Year R Maths Medium Term Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
AUTUMN term 1	Home visits	To count reliably (from 0-20) NPV To count objects to 10, and beginning to count beyond 10 (Can count in a line) NPV	To use one to one correspondence (touch each object and give it a number 0-20) NPV Uses positional language (below, above, next to, beside, in front, behind and on top) GP	To count actions or objects which cannot be moved.	To count objects in a group/ irregular arrangement of up to ten objects (same group/different group). NPV	To represent numbers using fingers, marks on paper or pictures. NPV To recognise numerals. (0 to 5, 0-10 & 0-20) NPV	To order numbers to 20. NPV
AUTUMN term 2	To write numbers to 20. NPV	To find/ say the number which is one more or one less than a given number. A & S Describes their relative position such as 'behind' or 'next to'.	Relates addition to combining two groups. A	Relates subtraction to taking away. S	To find one more or one less from a group of up to five objects, then ten objects. A & S	Selects the correct numeral to represent 1 to 5, then 1 to 10 objects. To set out groups and find the total amount. Mx	Uses mathematical terms to describe 2d shapes. GS
SPRING term 1	To estimate how many objects they can see and check by counting. NPV They recognise, create and describe patterns. To count patterns. Mx	To recognise the number of objects in a small group without counting out (subitise). NPV Orders two or three items by length or height. M	Uses quantities and objects, to add two single-digit numbers and count on to find the answer. A	To count on when adding to a group (holding first number in head) A	To add two sets of objects which are the same (cars + cars) then different (apples + bananas) A Orders two items by mass. (using everyday language) M	Uses everyday language to solve problems. M Increase one quantity by a given amount to find the total (augmentation) A	
SPRING term 2	To use quantities and objects, to subtract two single-digit numbers (count on or back) to find the answer. S To count backwards.(on a number line or counting stick.)	To recognise and name +, =, - signs. A & S To read an addition number sentence. A To solve an addition number sentence. A	To recognise and name +, =, - signs. A & S To read a subtraction sentence. S To solve a subtraction number sentence. S	To share objects equally. D To group objects. D	Orders two items by capacity. (using everyday language) M Uses everyday language to compare quantities & objects. M Uses everyday language to talk	Orders and sequences familiar events. M Uses everyday language related to time (begins to identify o'clock) M	

	S				about distance. M		
SUMMER term 1	To skip count in 2s, 5s & 10s. Mx	To skip count in 2s, 5s & 10s. Mx	To skip count in 2s, 5s & 10s. Mx	To skip count in 2s, 5s & 10s. Mx	To skip count in 2s, 5s & 10s. Mx	To skip count in 2s, 5s & 10s. Mx	
	To make 5 and 10 (feel the tenness of ten). NPV	To arrange an addition number sentence. A&S To arrange a subtraction number sentence. S	To halve (an even group up to 12) S & D To solve problems involving grouping and sharing. F	To share an even group of objects between 2, between 4. D & F	Begin to understand odd and even. Mx & D To count up to 20 (objects/ images in an array) D	Uses everyday language to talk about money. M Demonstrates understanding that £1 has greater value than pennies. M	
SUMMER term 2	Shares an even group of objects between 4. D	To know number families to 5, 6 & 10. A & S	To know doubles to 10. A Begin to relate the addition of dobles to counting on (how many wheels on 2 cars? 4 5,6,7,8 4+4=8) Mx	To identify half a group of objects. F	Know and name different coins – 1p, 2p, 5p. 10p, 20p, 5op, £1 & \$2. M Can use 1p, 2p, 5p & 1op coins to make amounts up to 20p. M	To identify half a shape. F To put together halves to make whole shapes. F To break an object in half. F	Uses mathematical terms to describe 3d shapes. GS

Year 1 Maths Medium Term Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Term 1	Number and place	Number and place value	Addition	Addition	Subtraction	Subtraction	
	value	To locate numbers on a	To add with number bonds	To investigate all possible	To break numbers into parts	To subtract by taking	
	COUNTING RELIABLY	number line.	within 10	sets of two numbers to make	To subtract with number	away.	
	– not on PAM	To read & write numbers	To know all number bonds	a given number.	bonds	To subtract by	
	To identify one more	from 1-20 in numerals and	to 10	To partition numbers into	CG –	counting on	
	and one less.	words.	CG-	part, part, whole	Recall and use addition and	To subtract small	
	To compare quantities	To identify odd and even	Recall and use addition	CG –	subtraction facts for all	numbers where sets	
	(using equal to, more	numbers.	and subtraction facts for	Recall and use addition and	numbers up to 5 and some	are hidden (counting	
	than, less than	CG –	all numbers up to 5 and	subtraction facts for all	facts to 10	on)	
	(fewer), most, least)	Identify and represent	some facts to 10	numbers up to 5 and some	Represent and use number	CG –	
	To match numbers and	numbers to at least 20	Read, write and interpret	facts to 10	bonds and related	Recall and use addition	
	quantities.	using objects and pictorial	mathematical statements	Represent and use number	subtraction facts within 20	and subtraction facts	
	CG-	representations including	involving addition (+),	bonds and related	Read, write and interpret	for all numbers up to 5	
	Given a number,	the number line	subtraction (-) and equals	subtraction facts within 20	mathematical statements	and some facts to 10	
	identify one more and	Use number names in	(=) signs	Read, write and interpret	involving addition (+),	Represent and use	
	one less with numbers	order to at least 20	Add and subtract numbers	mathematical statements	subtraction (-) and equals	number bonds and	
	up to 20	Read and write numbers	mentally including 2 single	involving addition (+),	(=) signs	related subtraction	
	Use the language of:	from 1 to 10 progressing to	digit numbers, a number	subtraction (-) and equals	Add and subtract numbers	facts within 20	
	equal to, more than,	20 in numerals	up to 20 and 1's	(=) signs	mentally including 2 single	Read, write and	
	less than (fewer),	Read and write numbers	Add and subtract one-digit	Add and subtract numbers	digit numbers, a number up	interpret	
	most, least	from 1 to 10 progressing to	and two-digit numbers to	mentally including 2 single	to 20 and 1's	mathematical	
	Use 1 to 1	20 in words (not	20, including zero	digit numbers, a number up	Add and subtract one-digit	statements involving	
	correspondence to	necessarily spelt correctly)		to 20 and 1's	and two-digit numbers to 20,	addition (+),	
	count sets of at least	Recognise even numbers		Add and subtract one-digit	including zero	subtraction (-) and	
	20 reliably	up to 10		and two-digit numbers to 20,		equals (=) signs	
	_	Recognise odd and even		including zero		Add and subtract	
		numbers to 20				numbers mentally	
						including 2 single digit	
						numbers, a number up	
						to 20 and 1's	
						Add and subtract one-	
						digit and two-digit	
						numbers to 20,	
						including zero	
Term 2	Number and place	Measure – money	Addition/subtraction	Measure – length	Addition/subtraction (length)	Geometry – properties	Statistics
	value	To recognise and know the	(money)	To compare and order length	,	of shapes	CG-
	To understand ordinal	value of different coins and		To measure using a starting		Recognise and name	Begin to group
	numbers.	notes		line		common 2-D shapes	objects into sets
	To compare numbers	To exchange money		To measure in non standard		(rectangles (including	according to simple
	up to 20 (and beyond).	To solve problems		units		squares, circles and	properties
	To describe and	involving money (making		CG –		triangles)	Answer simple
	extend number	amounts in different ways)		Solve simple measure		Recognise and name 3-	questions by
	sequences.	CG-		problems in a practical		D shapes.	counting the number
	CG -	Recognise and know the		context using direct		To recognise shapes in	of objects in a
	Respond to and use	value of different		comparison and non		different orientations	category
	terms such as first,	denominations of coins		standard units		and sizes.	Interpret and
	second and third	and notes		Measure and begin to		To make models,	construct simple
		1p,2p,5p,10p,20p,£1 and £2		record - lengths and height		patterns and pictures	pictograms (where
							the picture is worth 1

	D. d. L	Combine on the Land	T	Ι		and the second s	
	Begin to use place value to order	Combine amounts to make small values				using construction kits and everyday material.	unit)), tally charts and block diagrams
	numbers	Siliali values				To identify shapes in	block diagrams
	Order numbers 1 to 20					the environment.	
	in ascending and					To identify and make	
	descending order					patterns.	
	descending order					· ·	
						CG - Recognise and	
						name common 2-D and	
						3-D shapes, including:	
						2 2-D shapes [for	
						example, rectangles	
						(including squares),	
						circles, pentagons,	
						hexagons and	
						triangles]	
						2 3-D shapes [for	
						example, cuboids	
						(including cubes,	
						pyramids, cones and	
						spheres]	
						Sort shapes based on	
						simple properties	
						Solve simple problems	
						involving shapes	
Term 3	Measure –Time	Number and place value	Addition and subtraction	Measure – Capacity and mass	Addition and subtraction		
	To sequence events in	To make ten.	To use a number line to	To compare and order mass	(capacity and mass)		
	chronological order	To regroup (carry out a fair	count on.	To weigh mass in non			
	To tell the time to the	swap).	To use a number line to	standard units			
	hour	To make ten and count on	count back.	To compare and order			
	To tell the time to the	(in concrete)	To subtract by counting	capacity and volume			
	half an hour	To identify ten and count	back	CG – Measure and begin to			
	CG –	on (in pictorial).	To use inverse(write	record volume/capacity			
	Sequence events in	CG - Recall and use	corresponding subtraction	Solve simple measure			
	chronological order	addition and subtraction	facts to given addition	problems in a practical			
	using language [for	facts for all numbers up to	facts – number families)	context using direct			
	example,	5 and some facts to 10	CG-	comparison and non			
	before and after, next,		Solve missing addition and	standard units			
	first, today, yesterday,		subtraction problems				
	tomorrow, morning,		involving single digit				
	afternoon and		numbers				
	evening]						
	Recognise and use						
	language relating to						
	dates, including days						
	of the week, months						
	and years						
	Know there are 7 days						
	in the week						
	Know the name of the						
	day before						
	measure and begin to						
	record time						

	Tell the time to the hour and half past the hour and draw the hands on a clock face to show o'clock and half past						
Term 4	Addition and subtraction To solve one step word problems using the part whole or adding on concept CG - Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations	Geometry – position and direction To describe position, direction and movement including back forward. To identify left and right. To use prepositional language. To give directions To make turns in both directions. To link turns with the hands on a clock CG - Respond to and use terms such as first, second and third Describe position, direction and movement, including whole, half, quarter and three- quarter turns Solve simple problems involving position and direction	Addition To add with number bonds to 20 To add two 1 digit numbers using the make 10 strategy To add 1 digit and a 2 digit number using the regrouping into tens and ones strategy CG - Represent and use number bonds and related subtraction facts within 20	Multiplication To place into equal groups To double numbers To double two digit numbers CG- Recall and use doubling and halving facts for numbers up to double 5	Division To solve division problems by sharing equally (up to 20 then beyond) To solve division problems by finding the number of groups (up to 20 then beyond)	Fractions To recognise half an object (as one of two equal parts) To recognise a quarter of an object (as one of two equal parts) To recognise half a shape (as one of two equal parts) To recognise a quarter of a shape (as one of two equal parts) To recognise a quarter of a shape (as one of two equal parts) To identify half a quantity (to share equally between 2 To place fractions on a number line. To identify halves (use Cuisenaire rods) CG - Recognise, find and name a half as one of two equal parts of an object or shape Recognise and find half of a moveable small set of objects or a quantity Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity Begin to solve simple problems involving fractions	
Term 5	Measure – Time	Geometry – properties of shapes	Number and place value To count out a 2 digit number to 20 and regroup in the 1s. To partition and recombine numbers to 20 into 10s and 1s (teen numbers). To partition and recombine any 2 digit number into 10s and 1s.	Measure – Money	Addition and subtraction To subtract within 20 by grouping into tens and ones To make a family of number sentences To use inverse (write corresponding subtraction facts to given addition facts – number families)	Addition and subtraction To solve missing number problems To solve one step word problems using part whole method CG - Solve one-step problems that involve	

						addition and subtraction, using concrete objects and pictorial representations	
Term 6	Addition and subtraction	Addition and subtraction	Multiplication To place objects into arrays Can describe an array in two ways To pictorially represent multiplication sentences CG - Count in 10's from zero to answer questions involving multiplication facts for the 10x table	Multiplication To understand repeated addition To make multiplication stories To move towards the bar model to solve word problems CG - Solve one-step problems involving multiplication and division, (grouping and sharing)by calculating the answer using concrete objects, pictorial representations and arrays	Division To relate grouping to repeated subtraction Use arrays to help solve division problems To know the link between multiplication and division To solve one step word problems To use reasoning to explain CG - Solve one-step problems involving multiplication and division, (grouping and sharing)by calculating the answer using concrete objects, pictorial representations and arrays	Fractions CG - Begin to solve simple problems involving fractions	Statistics

MOS – compass grids

Count to at least 20 forwards and backwards
Count to 100, beginning with 0 or 1, or from any given number
Count to and across 100 forwards and backwards
Count in steps of 10
Begin to count in 10s from any number
Count in multiples of twos, fives and tens
Begin to use place value to order numbers
Use the number facts they know to solve problems

Year 2 Maths Medium Term Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Term 1	Number and place value To represent 2 digit numbers (concrete) To count within 100 by making tens first. To recognise the place value of each digit in a 2 digit number. To compare numbers from 0 – 100. To order numbers from 0-100.	Number and place value To partition and recombine 2 digit numbers into 10s and 1s. To partition and recombine 3 digit numbers into 100s, 10s and 1s. To partition numbers in different ways.	Addition/subtraction To use the counting on strategy (with number line, Dienes or mentally) To use making ten strategy to add (see y1 progression) To use partitioning to add	Addition/subtraction To add a two digit number and tens To add a two digit number and ones without regrouping To add 2 two-digit numbers without regrouping To regroup and rename	Addition/subtraction To break numbers into parts To use the number bond strategy to subtract To subtract a one digit number from a two digit number without regrouping To subtract 2 two-digit numbers without regrouping	Measure – Time To compare and sequence intervals of time. To tell and write the time to quarter past/to and five minutes.	
Term 2	Geometry – properties of shape To identify and describe the properties of 2-D shapes. To identify the line symmetry in a 2-D shape.	Multiplication To identify odd and even numbers To understand multiplication as repeated addition To use arrays	Division To use number bonds for factor and products (using multiples of 2, 5 and 10) To identify missing factors To use concrete apparatus to solve division problems (sharing) To use concrete apparatus to solve division problems (grouping) 20÷5=4) To know whether to round up or down depending on context.	Fractions To divide shapes into equal parts. To know that and is equal to a whole. To identify fractions of a shape. (using halves, thirds and quarters) To identify all the different ways to make To recognise of a length, shape and object.	Statistics To replace accordingly with pictograms/tally charts/block diagrams/simple tables To interpret To count the number of objects in each category and sort the categories by quantity, To compare categorical data To construct a To make pictograms and graphs where one symbol represents more than one unit.	Measure – money To recognise and use coins and notes and compare amounts. To select different combinations of coins to make a particular value. To calculate giving change up to and including £1.00. To exchange pence for pounds.	Addition and subtraction – money To solve problems for money with addition and subtraction
Term 3	Number and place value Identify numbers on a number line. To use the greater than, less than and equals signs (<,>,=) To begin to round numbers less than 100 to the nearest 10. Read and write numbers in numerals and words.	Addition/subtraction To add three one-digit numbers To add numbers with regrouping (in ones) To add numbers with regrouping (in tens.) Use the inverse to solve missing number problems To solve one step word problems using 'part, whole' and adding on.	Addition/subtraction To use the counting backwards strategy to subtract Use the 'take away' strategy to subtract To subtract a one digit number from a two digit number with regrouping To subtract 2 two-digit numbers with regrouping To solve one step word problems using 'part, whole'	Multiplication/division To know 2, 5, 10 times tables. To multiply using partitioning To understand the commutative property of multiplication. To interpret multiplication sentences (The first factor referring to the number of groups and the second factor as the number of items in each group.)	Multiplication/division To divide with remainders (in concrete) To use pictorial representations to solve division problems (sharing) To use pictorial representations to solve division problems (grouping) To know all corresponding multiplication and division facts (i.e. 2x4= 8, 4x2= 8 and 8÷4=2, 8÷2=4)	Measure – Time To tell and write the time to quarter past/to and five minutes.	
Term 4	Measure – Length To measure and compare lengths and heights in metres (> < =).	Addition and subtraction – length context To solve length problems using the four operations .	Multiplication and division - length context To solve length problems using the four operations.	Fractions To identify fractions of a length. (using halves, thirds and quarters)	Geometry – position and direction To order and arrange objects in patterns and sequences.		

	To measure and		To break a number into	To identify fractions of a set	To describe the position of		
	compare lengths and heights in centimetres.		factors To connect the 10 times table with place value To use arrays to help solve division problems	of objects by sharing equally. (between two, three and four) To identify fractions of a quantity. (using halves, thirds and quarters)	objects. To give directions.		
Term 5	Geometry – properties of shape To identify and describe properties of a 3-D shape (edges, vertices and faces) To identify 2-D shapes on the surface of 3-D shapes. To compare and sort common 2-D and 3-D shapes and everyday objects.	Number and place value	Measure – capacity and mass To measure and compare masses in kilograms (> < =) . To measure and compare masses in grams (> < =). To measure and compare temperature (> <=). To measure and compare temperature (> <=).	Addition and subtraction – mass and capacity context To solve mass problems using the four operations.	Multiplication and division - mass and capacity context To solve mass problems using the four operations.	Measure – time	
Term 6	Measure – length To measure and compare lengths and heights in metres (> < =). To measure and compare lengths and heights in centimetres.	Four operations – context measure To solve length, mass, capacity questions using 4 operations	Four operations – context money To solve money questions using 4 operations	Fractions To recognise equivalent fractions. To place fractions on a number line To count in fractions To use the bar model to show fractions	Statistics To read and interpret a simple key To ask and answer questions about categorical data. To read the scale on a graph. To sort objects using more than one criteria (Carroll diagrams) To sort objects using more than one criteria (Venn diagrams)	Geometry – position and direction To describe and control movement. To describe movement in terms of right angles for turns. To programme robots to turn.	Four operations – context measure

Throughout (and when children are ready): To use the bar model to represent word problems, Problem solving (4 types)

Year 3 Maths Medium Term Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Term 1	Number and place value To represent 3 digit numbers (concrete) To find 1, 10 or 100 more than a given number (concrete). To recognise the place value of each digit in a three digit number.	Addition/subtraction To use partitioning to add To use a number line for addition To solve missing number problems To add a three digit number and ones without regrouping (see progression year2)	Addition/subtraction To find the difference using a number line (for near numbers) To use number bonds to subtract mentally (see mental strategies below for progression and next page for exemplification) To subtract without regrouping (see year 2)	Multiplication To use number bonds for factors and products To understand how place value changes when multiplying by 10 To calculate two digit numbers multiplied by one digit numbers	Division To use number bonds for factor and products (using multiples of 3,4 and 8) To identify missing factors To derive related division facts from known multiplication facts To use the distributive property strategy to divide 'friendly' numbers.	Measure – Time Tell and write the time from an analogue clock (standard clock and with Roman numerals). To match digital and analogue clocks.	·
Term 2	Fractions, decimals and percentages To identify unit fractions of objects, shapes and length. (a unit fraction has 1 as the numerator) To identify non-unit fractions of objects, shapes and length. (a non-unit fraction has >1 as the numerator) To calculate fractions of a quantity	Fractions, decimals and percentages To recognise equivalent fractions To recognise that tenths arise from dividing an object into ten equal parts	Geometry To draw and describe 2-D shapes (reflective symmetry, regular, irregular) To make 3-D shapes using modelling materials. To recognise 3-D shapes in different orientations.	Statistics To interpret and present data using bar charts To interpret and present data using pictograms To interpret and present data using pictograms To interpret and present data using tables	Measure – volume and capacity To measure and compare volume in I/mI.	Measure – length and mass To measure and compare lengths in m, cm and mm. To measure and compare mass in Kg and g.	Four operations To use multiplication and division to scale by integers. To solve measurement problems using both addition and subtraction.
Term 3	Number and place values – To use part, part whole to partition numbers in different ways. To compare numbers up to 1000 To order numbers up to 1000	Geometry – To measure and calculate perimeter of 2D shapes To recognise angles as a property of shape. To identify angles in the environment. To recognise angles as a description of a turn. (half turn, three quarters turn, 360') To identify right angles, linking to turns and identifying ><= right angles. (acute, obtuse)	Fractions, decimals and percentages – To compare fractions (fractions with the same denominator) To order fractions (fractions with the same denominator) To compare fractions with different denominators	Fractions, decimals and percentages – To recognise equivalent fractions (see exemplification year 4)	Addition and subtraction – To add a three digit number and tens without regrouping (see progression year2) To add 2 three-digit numbers without regrouping To add three-digit numbers with regrouping (revert to expanded method if tricky) To subtract with regrouping in tens and ones To subtract a 3 digit number with regrouping in hundreds and tens To subtract a 3 digit number with regrouping in hundreds, tens and ones	Multiplication and division – To carry out short multiplication without regrouping To carry out short multiplication with regrouping in ones, tens and hundreds To divide a two digit number by a one digit number (in concrete with and without remainders) To divide a two digit number by a one digit number using short division (no remainders)	
Term 4	Statistics – To recognise importance of titles and labels when sorting data	Measure – money To calculate change given in both £ and p	Four operations – money To add three-digit numbers with regrouping (revert to expanded method if tricky)	Measure - time To read and record time to the nearest minute. To compare time in seconds, minutes and hours.	Four operations – To add three-digit numbers with regrouping (revert to expanded method if tricky)	remaineers)	

	To solve one step questions using statistical information. To solve two step questions using statistical information		To subtract a 3 digit number with regrouping in hundreds, tens and ones To divide a two digit number by a one digit number using short division (no remainders) To carry out short multiplication with regrouping in ones, tens and hundreds	To convert hours and minutes.	To subtract a 3 digit number with regrouping in hundreds, tens and ones To divide a two digit number by a one digit number using short division (no remainders) To carry out short multiplication with regrouping in ones, tens and hundreds Word problems		
Term 5	Number and place values – Identify, represent and estimate numbers up to 1000 in numerals and words. To recognise the place value of different measures. To use dienes and coins to understand place value.	Addition and subtraction – To add using place value counters To develop and recognise patterns in addition To estimate the answer to a calculation To solve word problems To count back to find the difference To estimate the answer to a calculation To use inverse operations to check answers To subtract 'taking away' one set using the bar model To subtract 'comparing two sets' using the bar model	Multiplication and division – To understand measuring and scaling problems To solve problems where items are shared equally (12 sweets between 4 children) To solve problems where items are shared using knowledge of fractions (4 cakes shared between 8 children) To know whether to round up or down depending on context.	Fractions, decimals and percentages – To add like fractions (fractions with the same denominator)	Fractions, decimals and percentages – To subtract like fractions	Fractions, decimals and percentages - To solve word problems involving fractions	
Term 6	Measure – volume and capacity To measure and compare volume in I/mI.	Four operations – volume and capacity To convert between different units of measure. To add three-digit numbers with regrouping (revert to expanded method if tricky) To subtract a 3 digit number with regrouping in hundreds, tens and ones To divide a two digit number by a one digit number using short division (no remainders) To carry out short multiplication with regrouping in ones, tens and hundreds	Measure – length and mass To measure and compare lengths in m, cm and mm. To measure and compare mass in Kg and g.	Four operations – length and mass To convert between different units of measure. To add three-digit numbers with regrouping (revert to expanded method if tricky) To subtract a 3 digit number with regrouping in hundreds, tens and ones To divide a two digit number by a one digit number using short division (no remainders) To carry out short multiplication with regrouping in ones, tens and hundreds	Geometry – To sort symmetrical and non- symmetrical polygons and polyhedra. To connect decimals and rounding to drawing and measuring straight lines. To identify horizontal and vertical lines. To identify pairs of perpendicular and parallel lines.	Statistics – To understand and use simple scales. To classify shapes, numbers and objects into a Venn diagram. To classify shapes, numbers and objects into a Carroll diagram.	Measure - time To calculate and compare duration of events.

Year 4 Maths Medium Term Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Term 1	Number and place value To represent 4 digit numbers (concrete-place value counters). To find 1, 10, 100 or 1000 more than a given number (concrete). To recognise the place value of each digit in a four digit number. Order numbers beyond 1000. Compare numbers beyond 1000.	Addition and Subtraction To add four digit numbers (no regrouping) To add with regrouping in the 100s To add with regrouping in the 100s, 10s and 1s To add with regrouping in the 1000s, 10s, 10s and 1s To identify common misconceptions in column addition	Addition and Subtraction To subtract up to 4 digit numbers (no regrouping) To subtract with regrouping in hundreds and thousands To subtract with regrouping in hundreds, thousands, tens and ones To subtract with numbers that have zeros To identify common misconceptions in column subtraction	Multiplication and division To multiply by ten using place value grids and dienes To multiply two digit numbers by a one digit number (see year 3 exemplification) To multiply three digit numbers by one digit number To multiply two digit by two digit number	Multiplication and division To use number bonds for factor and products (To solve missing number sentences) To make the link between sharing, arrays and short division. To use known facts to derive facts involving 3 digit numbers (If I know 2x3 = 6 I can work out that 600÷3=200) To use the distributive property strategy to divide 'friendly' numbers.	Measurement – Time To convert units of measure. To convert time between analogue and digital clocks (12 hour and 24 hour). To solve problems involving converting time. To calculate time durations that pass through the hour.	
Term 2	Fractions, decimals and percentages To identify equivalent fractions Show equivalent fractions pictorially (and calculate equivalent fractions) To compare fractions	Fractions, decimals and percentages To use factors and multiples to recognise equivalent fractions To simplify fractions Add and subtract like fractions (fractions with the same denominator).	Geometry-properties of shape To classify different triangles. To classify different quadrilaterals. To identify lines of symmetry in 2-D shapes presented in different orientations. To complete a simple symmetric figure.	Statistics To interpret and present data in a bar chart To interpret and present data in a time graph To solve comparison problems using information presented (in a range of tables/graphs). To solve sum problems using the information presented (in a range of tables/graphs). To solve finding the difference problems using the information presented (in a range of tables/graphs).	Measurement-length and mass To measure and calculate the perimeter of rectilinear shapes. To find the area of rectilinear shapes (by counting squares). To estimate, compare and calculate measures.	Measurement – volume and capacity To estimate, compare and calculate measures.	Four operations (context: volume, capacity, length, mass)
Term 3	Number and place value Round any number to the nearest 10, 100, 1000. (To round appropriately given context see division strand) To identify and count in negative numbers. To estimate and round numbers using measuring instruments.	Addition and subtraction To round off numbers to the nearest 10 / 100 - To estimate to check answers To add and subtract decimals up to 2 decimal places To solve two step word problems. Use take away and comparing models to solve subtraction word problems.	Multiplication and division To use the distributive law: 32x3 = (30x3) + (2x3) = 90+6 = 96 To use associative law to multiply three numbers To solve problems using scaling To derive multiplication and division facts from three digit numbers To divide a three digit number using short division (Regrouping in tens and ones)	Fractions, decimals and percentages To calculate the fraction of numbers and quantities Recognise and write decimal equivalents of any number of tenths of hundredths Recognise and write decimal equivalents to ,	Fractions, decimals and percentages. Compare numbers with the same number of decimal places (up to 2 decimal places) Round decimals with one decimal place to the nearest whole number.	Geometry – position and direction To recognise that two right angles make a half turn, three make three quarters and four complete. To describe position on a 2-D grid as co- ordinates.(2,5)	

Term 4	Statistics To understand and use	Measurement – money To calculate money in	To divide a three digit number using short division (Regrouping in tens, ones and hundreds) Four operations	Measurement – time To convert units of measure.	Geometry – properties of shape		
	a range of scales. To understand the recording of change over time. To record change over time in a range of graphs.	pounds and pence using four operations.		To convert time between analogue and digital clocks (12 hour and 24 hour). To solve problems involving converting time. To calculate time durations that pass through the hour.	To identify acute and obtuse angles. To compare and order angles up to two right angles, by size. To compare length and angles to decide if a polygon is regular or irregular.		
Term 5	Number and place value To understand the history of different numeration systems. To read and understand Roman numerals. To understand the place value of decimals and fractions (see learning objectives in these strands).	Addition and subtraction To round off numbers to the nearest 10 / 100 - To estimate to check answers To add and subtract decimals up to 2 decimal places To solve two step word problems. Use take away and comparing models to solve subtraction word problems.	Multiplication and division To recognise factors of a number To multiply decimals	Fractions, decimals and percentages To connect fractions, decimals and measures (using a number line)	Fractions, decimals and percentages To connect fractions, decimals and measures (using a number line)	Geometry – position and direction Describe movements between positions as translations (left, right, up, down) To plot specified points. To draw a polygon. To draw a pair of axes. To use coordinate plotting ICT tools.	
Term 6	Measurement – volume and capacity To estimate, compare and calculate measures	Four operations (context: volume and capacity)	Measure – Length and mass To estimate, compare and calculate measures	Four operations (context: length and mass)	Geometry – properties of shapes To compare and classify geometric shapes based on their properties and sizes. To use a tree diagram to classify shapes	Statistics To record data into Venn and Carroll diagrams.	Measurement – time To convert units of measure. To convert time between analogue and digital clocks (12 hour and 24 hour). To solve problems involving converting time. To calculate time durations that pass through the hour.

Throughout (and when children are ready): To use the bar model to represent word problems, Problem solving (4 types)

Year 5 Maths Medium Term Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Term 1	Number and place value To represent 6 digit numbers (to 1 000 000) (concrete- place value counters). To recognise the place value of each digit in a six digit number. To compare & order numbers to at least 1 000 000 To understand decimals and fractions (Revising in Term 6) Recognise thousandths and relate them to tenths, hundredths and decimal equivalents.	Addition and Subtraction To add four digit numbers (regrouping in the 1000s, 100s, 10s and 1s) To identify common misconceptions in column addition To subtract four digit+ numbers (regrouping in the 1000s, 100s, 10s and 1s) To identify common misconceptions in column subtraction	Mulitplication & division Divide whole numbers by 10,100 and 1000 Divide decimals by 10, 100 and 1000 To divide by powers of 10 (in scale drawings). To divide by powers of 1000 (in converting between units such as km and m) To multiply whole numbers& decimals by 10, 100, 1000	Multiplication and division To solve problems involving multiplication. To multiply numbers up to four digits by a one digit number To multiply numbers up to four digits by a two digit number Divide numbers up to 4 digits by a one digit number (with remainders)	4 operations To solve multistep word problems using the bar model. Solve problems involving number up to three decimal places. To find the missing value.	Measure – Time To solve problems involving converting units of time	
Term 2	Fractions, decimals and percentages. To identify equivalent fractions (including tenths and hundredths) To compare and order fractions (whose denominators are multiples of the same number)	Fractions, decimals and percentages. To calculate fractions of numbers and quantities. Read and write decimal numbers as fractions.	Geometry-properties of shape To identify 3-D shapes from 2-D representations (including cubes and other cuboids). To sort regular and irregular polygons. To estimate and compare angles. (obtuse, acute, reflect, right angle)	Measurement-length and mass To convert between different units of metric measure. To measure and calculate the perimeter of composite rectilinear shapes.	Measurement-volume and capacity To calculate and compare the area of rectangles. (cm² and m²) To estimate the area of irregular shape. To estimate and measure capacity. To estimate volume.	4 operations volume, capacity, length and mass. To solve multistep word problems using the bar model. To find the missing value. To use all four operations to solve problems involving measure. To solve missing measure questions when presented algebraically.	Statistics To solve comparison problems using information in a line graph. To solve sum problems using information in a line graph To solve difference problems using information in a line graph.
Term 3	Number and place value To recognise and describe linear number sequences. To find the term-to- term rule To interpret negative numbers. Counting forward and backward. To round numbers to the nearest 10, 100, 1000, 10 000 and 100	Addition and subtraction To round off numbers to the nearest 10. To round off numbers to the nearest 100. To round decimals with 2d.p to the nearest whole number. Or to one decimal place. To subtract decimals up to 2 decimal places	Multiplication and division To identify common factors of two numbers. To use number bonds for factor and products and to identify missing factors (using fractions and decimals) To know prime numbers, prime factors and composite numbers.	Fractions, decimals and percentages. To add and subtract fractions with the same denominator (see year 4) To add and subtract fractions with denominators that are multiples of the same number.	Fractions, decimals and percentages. To convert mixed numbers to improper fractions (and back)	Fractions, decimals and percentages. To multiply fraction and mixed numbers by a whole number. (use diagrams to support)	

	ooo (To round appropriately in context see division strand)	To subtract money using the column method To add decimals up to 2 decimal places To add money using the column method To use part, part whole to add money (will review in term 4, week 1)	To recognise and use squared and cubed numbers				
Term 4	Measure-money To use part, part whole to add money	Four operations To solve multistep word problems using the bar model. To find the missing value.	Measurement time To solve problems involving converting units of time	Geometry – position and direction To reflect the position of a shape To reflect the position of a shape in all four quadrants (extension) To translate the position of a shape To translate the position of a shape in all four quadrants (extension)	Geometry – properties of shape. To draw given angles and measure them in degrees. (using a protractor) To identify angles at a point and one whole turn. To identify angles at a point on a straight line. To identify missing lengths and angles. (using angle sum facts)		
Term 5	Number and place value To count in steps of powers of 10 up to 1 000 000 Read Roman numerals (See progression year 4) To solve problem including all of the above.	Addition and subtraction To subtract measures using the column method To add measures using the column method. To solve multistep word problems using the bar model.	Multiplication of division To understand the law of distributivity To use the distributive property strategy to divide 'friendly' numbers. To interpret remainders appropriately for the context (rounding up or down- see year 6 exemplification) To interpret non-integer answers to division by expressing results in different ways Reviewing skills of: To multiply numbers up to four digits by a one digit number Divide numbers up to 4 digits by a one digit number (with remainders)	Fractions, decimals and percentages Read and write decimal numbers as fractions. To add and subtract decimals	Fractions, decimals and percentages Recognise thousandths and relate them to tenths, hundredths and decimal equivalents.	Fractions, decimals and percentages To know that a percent means out of 100 & percent symbol. Write percentages as a fraction with denominator 100. Write percentages as a decimal. Solve problems which require knowing percentage and decimal equivalence of ½, ¼, 2/5/, 4/5 and those fractions with a denominator of 10 or 25. To convert fractions to percentages	
Term 6	Statistics To complete, read and interpret information in tables (including time tables) To make links with coordinates	Geometry-position and direction To use a 2-D grid and coordinates in the first quadrant	Geometry properties of shape To draw lines to the nearest mm. To label parallel lines and right angles.	Measurement-volume and capacity To measure and calculate the perimeter of composite rectilinear shapes	Measurement length and mass To use approximate equivalences between metric and imperial units.	Measurement-money To solve problems involving money using the four operations.	Four operations (measurement) To use all four operations to solve problems involving measure (for example, length,

To choose the	To use a 2-D grid and	To identify and use	To use multiplication and	mass, volume, money)
appropriate	coordinates in all four	diagonal and parallel lines.	division to inter scale and	using decimal
representations of	quadrants. (extension)		calculate changing rates.	notation, including
data.		Use the properties of		scaling.
	Revision of translation.	rectangles to deduce related facts and find missing lengths and	Review metric measures.	
		angles.		

Throughout (and when children are ready): To use the bar model to represent word problems, Problem solving (4 types)

Year 6 Maths Medium Term Plan

Term 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	
	SDD and KENT TEST Number and place value -read, write and say numbers up to 10,000,000 -partitioning -ordering -rounding -doubling and halving (including decimals) -prime, factors, multiples, squared and cubed numbers -roman numerals		Positive and negative numbers -using positive and negative numbers in real life contexts -adding and subtracting -problem solving with negative numbers		Adding and subtracting -column addition and subtractions -estimation to check answers -solving word problems and using correct vocab for adding and subtracting -explaining and reasoning -application of number knowledge in adding and subtracting calculations/problems		Mental methods for multiplying and dividing -x and ÷ by 10, 100 and 1000 (including decimals) -using the inverse and number facts to solve problems ie 24	
Term 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
	Multiplication -grid -expanded column -compact column -solving problems		Division -short division -long division -solving problems		Four operations -associated vocab -inverse -problem solving -estimating	BODMAS and algebra -solving problems -writing formula	Fractions -finding fractions of shapes and numbers -proper, improper and mixed numbers	(3 days) Fractions -simplifying and finding equivalents -ordering (and 2 days after half term)
Term 3	Week 1	Week 2	Week 3	Week	Week 5	Week 6		
	(2 days) Fractions -simplifying and finding equivalents -ordering	Fractions -adding and subtracting -multiplying and dividing	Fractions and decimals -converting between fractions and decimals	Fractions, decimals and percentages -converting between fractions, decimals and percentages -finding percentages of amounts	Percentage -percentage increase and decrease -problems solving using FDP	Angles -measure and draw accurately -types of angles -find missing angles (including within shapes)		
Term 4	Week 1	Week	Week 3	Week	Week 5	Week 6		
	Geometry –position and directions -coordinates -translation -reflection -symmetry -rotation	Geometry -shape -properties of 2D shapes -types of lines (parallel etc) -circles -properties of 3D shapes	Geometry -perimeter -area -volume	Measure - time and units of measure - reading scales - time (reading clocks and intervals) - calendar and time problems - selecting appropriate units of measure	Measure –mass, length and capacity - converting between units of measure -solving problems	Data handling -types of graph -interpreting -pie charts		
Term 5	Week 1	Week	Week 3	Week	Week 5	Week 6		
	Number and place value -ratio and scaling	REVISION	REVISION	(4 days) REVISION	KS2 SATs week	Problem solving and data handling		
Term 6	Week 1	Week	Week 3	Week	Week 5	Week 6	Week 7	Week 8

	Problem solving and data	Problem solving and	Problem solving	(2 days)				
	data handling	data handling	data handling	data handling	handling	data handling	and data handling	