

	Aut	umn	Sp	ring	Summ	er
Term:	1	2	3	4	5	6
Early Years	Learning	objective		Success Criteria		Coverage
Number	Have a deep understanding of number number.	er to 10, including the composition of each	 I can move or touch objects to counter I can count things I can't touch or set I know that, when objects are moved. I know that, when objects are moved. I know that the last number that I sate. I can give someone a specified number of objects. I can count a specified number of objects. I can make an estimate, such as chooled. I can count on when part of a set of Composition of number: I can show an understanding of part (Reception). I can show that, when counting, the lider can use concrete objects to find did three and zero), recognising that the lider can solve real world problems with lider can understand the language of 'pate. I can solve real world problems with lider can understand that the 'whole' is made. I can say the 'hidden number' when lider can explore different compositions. I can explore different compositions. I can use visual models to explore did lider can say the missing number from recompositions. I can see the two parts within a whole lider can say the missing number from recompositions. I can use my knowledge of the compositions. I can distinguish numerals from letter. I can represent numbers using finge. I can recognise a numeral from 1 to lider can pick out a matching numerals. I can recognise numerals to quant. I can recognise numerals to to 5, the lider recognise numerals 0 to 5, the lider recognise numerals. I can recognise numerals 0 to 5, the lider recognise numerals of to 5, the lider recognise numerals. I can represent the numerals 0 to 5, the lider recognise numerals. I can compare sets of objects, saying. I know that a group of things change. I can compare sets of objects, saying. I can compare sets of objects,	the end out or moved closer together, the end out or moved closer together, the end out or moved closer together, the end of objects. (Reception) bejects from a larger group. (Reception) bejects from a larger group. (Reception) bejects is hidden. (Reception) to soing the group which has the closest to tend objects is hidden. (Reception) to said wholes by gathering objects together that I say is the number that I fferent combinations of three (for example, the total is still the same. (Reception) december up to five, by exploring different entry and 'whole'. (Reception) december up of the 'parts'. (Reception) december up to ten, using concrete resolutions are only part of a group of up to five of soft numbers up to ten, using concrete resolutions to ten. (Reception) delember bonds within ten, using concrete objects. (Reception) and the matching number of objects. (Reception) and any paper or pictures. (Reception) and explain what they represent. (Reception) not to 10, when they are places in order. (Reception) then 0 to 10, correctly. (Reception) then 0 to 10, correctly. (Reception)	e total remains the same. (Reception) group. (Reception) n objects. (Reception) and separating them into smaller groups. ne group contains. (Reception) one and one and one, two and one, or objects. (Reception) compositions. (Reception) on) picts or fingers. (Reception) on solve problems. (Reception) on (Reception) on) (Reception) on) (Reception) on) (Reception) (Reception) (Reception) (Reception)	



	(Reception) I can find the total number items in two groups by counting all of them. (Reception) I can select two groups of objects to make a given total of objects. (Reception)
	 I can recognise the number of objects when counting. (Reception) I can find out the 'total' or 'how many altogether' after two sets have been combined. (Reception) I can represent numbers in different ways using equipment, such as five or ten-frames, part-whole models, number lines or stories. (Reception)
	 I can understand the effect of subtracting zero. (Reception) I can understand the effect of adding zero. (Reception) I can understand the effect of subtracting the full amount. (Reception) I can count back to subtract. (Reception)
	 I can count on to add. (Reception) I can use the vocabulary of equals: leaves, balances, same and total. (Reception) I can use the vocabulary of subtraction: take away, how many left, subtract and minus. (Reception) I can use the vocabulary of comparison in practical contexts: how many fewer? How much shorter/cheaper than?
	 (Reception) I can use the vocabulary of addition: how many altogether, plus, more. (Reception) I can understand addition as an increase. (Reception) I can understand subtraction as a decrease. (Reception)
Subitise (recognise quantities without counting) up to five	 I can initially recognise groups of two, or possibly three, without the need to count. (Reception) I can make a small collection of up to three objects to match another collection of objects. (Reception) I can connect small quantities to number words, without the need to count. (Reception) I can select objects from a larger group by subitising. (Reception) I can identify if the group does or does not contain a certain amount, without counting. (Reception) I can quickly recognise up to three objects, and name the quantity, without having to count them individually. (Reception) I can show a number of fingers to five, all at once, without counting. (Reception) I can recognise small quantities in familiar patterns (up to 6 for a pattern on a die) without counting. (Reception) I can subitise two or more parts within a random arrangement of up to five objects, without counting. (Reception) I can subitise up to five, including regular and random arrangements, by seeing the parts and quickly knowing the whole.
	 (Reception) I can subitise two or more parts within an arrangement of more than five objects. (Reception) I can subitise two or more parts within a larger group and instantly know the total. (Reception) I can subitise a quantity and describe a change, such as 'more' or 'less'. (Reception)
Automatically recall (without reference to rhymes, counting number bonds up to five (including subtraction facts) and to ten, including double facts.	I can use my understanding of number bonds to recall number bonds to give, including subtraction facts. (Reception) I can automatically recall all number bonds to ten. (Reception) I can automatically recall double facts up to double five. (Reception) I can understand the vocabulary of 'matching' and 'same' through picture matching or number shapes. (Reception) I can compare two groups of objects, saying when they have the same number. (Reception) I can recognise dice doubles when playing games, or spot pattern doubles on dominoes. (Reception) I can use the term 'double'. (Reception) I can recognise when a set of objects or pictures are not a double. (Reception) I can make and explain my own doubles through mirroring activities. (Reception) I can use the language of doubling, such as 'two of the same', 'same again' and 'double'. (Reception) I can solve problems involving doubles. (Reception) I can recognise a double when it is not shown in a regular pattern. (Reception) I can create doubles in order, from one to five, and say what I notice. (Reception)
Numerical Patterns • Verbally count beyond 20, recognising the pattern of the or	 I can say the number names in order in an unbroken string, forwards. (Reception) I can say the number names backwards in an unbroken string. (Reception) I know that the order of numbers is fixed and will not change. This is known as a stable order. (Reception) I can recognise the significance and value of zero. (Reception)



I can say the number before or after a number, dropping back to one. (Reception)	
I can stop and start in different places when counting forwards. (Reception)	
I can stop and start in different places when counting backwards. (Reception)	
I can count on and keep track of how many I have counted on. (Reception)	
I can count back and keep track of how many I have counted back. (Reception)	
I can see the recurring pattern in our number system and use this to help me to count higher. (Reception)	
I can enunciate each number clearly. (Reception)	
Compare quantities of up to 10 in different contexts, recognising when one I can order objects, such as towers of bricks, by saying which is the largest and which is the smallest. (Reception)	
quantity is greater than, less than or the same as the other quantity. • I can order numerals 0 to 5. (Reception)	
I can place consecutive numerals in order (initially with numbers from 0 to 10, then progressing to numbers 0 to 20).	
(Reception)	
• I can place consecutive numbers in order, starting from a number other than one. (Reception)	
• I can place non-consecutive numbers in order (initially with numbers 0 to 10, then progressing to numbers 0 to 20).	
(Reception)	
• I can place numbers in order from smallest to greatest and greatest to smallest. (Reception)	
• I can place numbers in order in a meaningful context, such as scores in a game. (Reception)	
• I can recognise when a group of objects is more than one. (Reception)	
• I can indicate which group of objects has 'more' objects. (Reception)	
• I can use number language, such as 'more' and 'a lot'. (Reception)	
• I can indicate which set of objects has more or which set has less. (Reception)	
• I can use number language such as 'less' or 'fewer'. (Reception)	
• I can indicate which group of objects has 'fewer' objects. (Reception)	
I can recognise groups with one, two or three objects, and begin to make comparisons between quantities, using the language of (mare) and (favor) (Reception)	
language of 'more' and 'fewer'. (Reception)	
I can match groups of objects with the same number. (Reception) I can match groups of objects with the same number. (Reception)	
I know that the quantity of objects stays the same when they are spread out or moved closer together. (Reception)	
I know that the objects will appear different if they are spread out or are different sizes. (Reception)	
• I can say the number that comes after a given number in the sequence one to five, progressing to numbers from one to ten. (Reception)	
I can say the number that comes before a given number in the sequence one to five, progressing to numbers from one to ten. (Reception)	
I can find one more than a number to five, progressing to numbers to ten. (Reception)	
I can find one less than a number to five, progressing to numbers to ten. (Reception)	
I can find one more and one less than a number to five, progressing to numbers to ten. (Reception)	
Explore and represent patterns within numbers up to 10, including evens and I can identify numbers to ten that are odd or even, explaining my understanding using concrete resources. (Reception)	
odds, double facts and how quantities can be distributed equally. • I can arrange small quantities into pairs and notice that some quantities will have an odd one left over with no partner.	
(Reception)	
I can understand the concept of 'fair' and 'unfair' when objects or snacks are shared equally or unequally. (Reception)	
I can share fairly through practical activities such as putting food on plates of sharing toys equally. (Reception)	
• I can use the vocabulary of sharing, such as 'equal groups', 'sharing fairy', 'sharing between', 'fair' and 'unfair'.	
(Reception)	
I can compare groups of objects, saying when they have the same number. (Reception)	
I can count the groups I have made and count how many objects are in each group. (Reception)	
I know that the original quantity remains unchanged after it has been shared equally. (Reception)	
I can solve simple problems that include sharing. (Reception)	



	Aut	umn	Sp	ring	Summ	er	
Term:	1	2	3	4	5		6
Year 1	Learning	objective		Success Criteria			Coverage
Number and place value	to count to and across 100, forwards a from any given number		 I can count to and across 100 from 0 I can count back from 100 and from a I can count on from any given number I can count back from a given number 	across 100 er er			
	to count, read and write numbers to 1 multiples including ones, twos, fire		 I can read numbers up to 100 in num I can write numbers up to 100 in nun I can count to 100 in ones I can count to 100 in twos I can count to 100 in fives I can count to 100 in tens I can tell you if a number is odd or ex 	nerals			
	to identify one more and one less from		 I can give one more than a given num I can give one less than a given numb 	per			
	 to identify and represent numbers using representations including the numbers. to, more than, less than (fewer), 	mber line and use the language of: equal	 I can identify numbers using objects I can use 'equal to' correctly I can use 'more than' correctly I can use 'less than (fewer)' correctly I can use 'most' correctly I can use 'least' correctly 				
	• to read and write numbers from 1-20 i	n numerals and words	 I can read numbers up to 20 in words I can write numbers up to 20 in words 				
Addition and subtraction	• to read, write and interpret mathemat subtraction(-) and equals (=) sign		 I can read the + sign and know what I can write the + sign and know what I can read the - sign and know what i I can write the - sign and know what I can read the = sign and know what I can write the = sign and know what 	it means t means it means it means			
	 to represent and use number bonds a 	nd related subtraction facts within 20	 I have memorised the number bonds I have memorised the number bonds I can write or draw or select material I can write or draw or select material 	s to 20 Is to show the number bonds to 20			
	zero	o-digit numbers to 20 (9+9, 18-9), including	 I can add a one-digit to a two-digit not I can subtract a one digit number fro I know what happens when I add 0 o 	m a two-digit number up to 20 r take 0 away			
	 to solve simple one-step problems that in concrete objects and pictorial representations of the problems such as 7 = - □ 	=	 I can solve simple one-step problems I can find the missing number in problems 	_			
Multiplication and division	to solve simple one-step problems inv calculating the answer using cond arrays with the support of the tea	crete objects, pictorial representations and	 I can share small quantities I can group small quantities I can find simple fractions of objects I can find simple fractions of number I can find simple fractions of quantiti I can double numbers I can talk to you about arrays and nu 	es			



		• I can talk to you about arrays and numbers patterns and counting in fives			
		• I can talk to you about arrays and numbers patterns and counting in tens			
actions	• to recognise, find and name a half as one of two equal parts of an object, shape	• I can find a half of an object			
	or quantity	• I can find a half of an shape			
	• to recognise, find and name a quarter as one of four equal parts of an object,	• I can find a half of an quantity			
	shape or quantity	• I can find a quarter of an object			
		• I can find a quarter of a shape			
		• I can find a quarter of an quantity			
		• I can make a whole by combining halves			
		• I can make a whole by combining quarters			
		I can make a half by combining quarters			
leasures	• to compare, describe, and solve practical problems for:	• I can compare			
	- lengths and heights	- lengths and heights			
	- mass or weight	- mass or weight			
	- capacity/volume	- capacity/volume			
	- time	- time			
	- time				
		I can describe longths and heights			
		- lengths and heights			
		- mass or weight			
		- capacity/volume			
		- time			
		I can solve practical problems for			
		- lengths and heights			
		- mass or weight			
		- capacity/volume			
		- time			
		• I can tell the difference between standard and non-standard units I can tell the difference between standard and non-			
		standard units	_		
	• to measure and begin to record the following:	• I can measure			
	- lengths and heights	- lengths and heights			
	- mass or weight	- mass or weight			
	- capacity/volume	- capacity/volume			
	- time	- time			
		• I can record			
		- lengths and heights			
		- mass or weight			
		- capacity/volume			
		- time			
		I can use a ruler and weighing scales	_		
	• to recognise and know the value of different denominations of coins and notes	• I can recognise different denominations of coins and notes			
		I can tell you how much coins and notes are worth			
	• to sequence events in chronological order using language such as: before and	I can use the language of time correctly			
	after, next, first, today, yesterday, tomorrow, morning, afternoon and				
	evening				
	to recognise and use language relating to dates, including days of the week,	• I can recognise the days of the week			
	weeks, months and years	• I can use the names of the days of the week correctly			
		I can recognise the months of the year			
		I can use the names of the months of the year correctly			
	• to tell the time to the hour and half past the hour and draw the hands on a clock	• I can tell the time to the hour			
	face to show these times	• I can draw the hands on the clock face to the hour			
		• I can tell the time to half past the hour			



		I can draw the hands on the clock face to the half hour			
Geometry:	• to recognise and name common 2-D and 3-D shapes, e.g.:	• I can recognise a 2-D shape			
properties of	 rectangles (including squares), circles and triangles 	• I can recognise a 3-D object			
shapes	- cuboids (including cubes), pyramids and spheres	• I can name a 2-D shape			
		• I can name a 3-D object			
Geometry:	• to describe position, directions and movements, including half, quarter and	I can describe the position of things or people			
Position,	three-quarter turns	I can describe the direction something/one is moving in			
direction		• I can make half turns in a clockwise direction			
		• I can make quarter turns in a clockwise direction			
		• I can make three-quarter turns in a clockwise direction			



	Aut	umn	Sp	ring	Summer	
Term:	1	2	3	4	5	6
Year 2	Learning	objective		Success Criteria		Coverage
Number and place value	• to count in steps of 2, 3, and 5 from 0, forward or backward	and count in tens from any number	 I can count in steps of 3 from any nur I can count in steps of 5 from any nur I can count in steps of 10 from any nur I can count in steps of 2 from any nur I can count in steps of 3 from any nur I can count in steps of 5 from any nur 	mber from 0 to at least 100 and backwards mber from 0 to at least 100 and backwards mber from 0 to at least 100 and backwards umber from 0 to at least 100 and backwards mber from 0 to beyond 100 and backwards mber from 0 to beyond 100 and backwards mber from 0 to beyond 100 and backwards umber from 0 to beyond 100 and backwards umber from 0 to beyond 100 and backwards ind a third		
	• to recognise the place value of each di	git in a two-digit number (tens and ones)	I can recognise and tell you the value			
	to identify, represent and estimate nu including the number line	mbers using different representations	 I know when 0 is being used as a place I can identify numbers represented in I can represent numbers in different I can estimate amounts 	n different ways		
	• to compare and order numbers from (o to 100; use <,> and = signs	 I can compare numbers 0 to 100 usin I can compare numbers 0 to 100 usin I can use = sign to show equality I can order numbers 0 – 100 			
	• to read and write numbers to at least	100 in numerals and in words	I can read numbers to at least 100 w I can read numbers to at least 100 w I can write numbers to at least 100 v I can write numbers to at least 100 v I can write numbers to at least 100 v	vritten in words written in numerals		
	• to use place value and number facts to	o solve problems	I can partition two digit numbers in d	different ways (e.g. 23=20+3, 23= 10+13) to reason with, discuss and solve problems		
Addition and subtraction	involving numbers, quantities an	orial representations, including those	I can solve simple one-step problems I can solve simple one-step problems I understand that to 'sum' is to add I understand that to 'find the differer	s with addition s with subtraction		
	to recall and use addition and subtract use related facts up to 100	tion facts to 20 fluently, and derive and	 I can recall all the addition facts to 20 I can recall all the subtraction facts to 0 I can use all the addition facts to 20 I can use all the subtraction facts to 20 I can use all the addition facts to 20 I can use all the subtraction facts to 20 	o 20 to solve problems 20 to solve problems		
	to add and subtract numbers using contained and mentally, including: a two-digit number and a two-digit number and two two-digit numbers adding three one digit numbers	ones tens	 I can record using columns when add I can record using columns when sub I can use objects to help me add I can use objects to help me subtract I can use pictures to help me add I can use pictures to help me subtract I can use mental strategies to help me 	ding otracting tt ne add		
	and subtraction of one number f			order e smaller number from the larger number		
	to recognise and us the inverse relation	nsnip between addition and subtraction	I can use the inverse to check whether	er my answer is correct		



				YAY	ACAD
	and use this to check calculations and missing number problems	• I can find the missing numbers using the inverse in number sentences: - $\Phi + 6 = 10$ $10 - 6 = 4$ - $6 + \Phi = 10$ $10 - 6 = 4$ so $\Phi = 4$			
Multiplication and division	 to recall and use multiplication and division facts for the 2, 5, and 10 multiplication tables, including recognising odd and even numbers 	 I can recall all the multiplication facts to 12 x 2 I can recall all the division facts to 24 ÷ 2 I can recall all the multiplication facts to 12 x 5 I can recall all the division facts to 60 ÷ 5 I can recall all the multiplication facts to 12 x 10 I can recall all the division facts to 120 ÷ 10 I can recognise an even number I can recognise an odd number 			
	 to calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and the equals (=) sign 	• I can use the 'x', ÷ and = signs when I record my calculation			
	to show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.	I know that I can multiply two numbers in any order I know that I must divide the bigger number by the smaller number			
	to solve problems including multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts	I can divide by sharing I can divide by equal grouping I can find fractions of: Objects unwhers quantities I understand the connection between the 10 multiplication table and place value I can solve problems involving multiplication and division using: materials arrays repeated addition mental strategies multiplication facts division facts			
Fractions	• to recognise, find, name and write fractions 1/3 1/4 2/4, 3/4 of a length, shape, set of objects or quantity	 I can recognise fractions ½ ¼ 2/4, ¾ of a length, shape, set of objects or quantity I can find fractions ½ ¼ 2/4, ¾ of a length, shape, set of objects or quantity I can name fractions ½ ¼ 2/4, ¾ of a length, shape, set of objects or quantity I can write fractions ½ ¼ 2/4, ¾ of a length, shape, set of objects or quantity 			
	• to write simple fractions e.g. ½ of 6 = 3 and recognise the equivalence of two quarters and one half	 I can write simple number sentences involving fractions I know that two quarters are the same as one half (I know that fractions are equal parts I can count in fractions on a number line I know that fractions can add up to more than one. 			
Measures	to choose and use appropriate standard units to estimate and measure: - length/height in any direction (m/cm); - mass (kg/g); - temperature (°C); - capacity (litres/ml) to the nearest appropriate unit, using: - rulers, - scales, - thermometers - measuring vessels	I can choose an appropriate unit to measure I can choose an appropriate unit to use to estimate I can measure in metres I can measure in centimetres I can estimate in centimetres I can use a ruler, tape or measuring stick to measure to the nearest metre I can use a ruler, tape or measuring stick to measure to the nearest centimetre I can weigh in kilograms I can weigh in grams I can estimate how heavy something is in kilograms I can estimate how heavy something is weigh in grams I can read scales to the nearest kilogram/gram I can measure how hot or cold something is in degrees Celsius (°C) using a thermometer I can estimate how hot or cold something is			



space road a firmmemore to risk flow but street						
Lam measures how much flighted have in millitions						
Comparison and order lengths, mass, volume/Lapadity and record the result.			·			
**Lo compare and order lengths, mass, volume/spacity and record the results using 3 x and = **Can estimate how much liquid that exists **Can compare two or more objects of different regists **Can compare two or mo						
• to compare and order lengths, mass, volume/capacity and record the results using y, x and — • to recognize and use symbols for pounds (E) and pence (p); combine amounts to to a finance or more objects of different engines. • to recognize and use symbols for pounds (E) and pence (p) in a finance or more objects of different engines. • to recognize and use symbols for pounds (E) and pence (p) in a finance or more objects of different engines. • to recognize and sequence interest involving addition and substraction of money. • to recognize and sequence interest involving addition and substraction of money. • to retain advanted to more to five minutes, including quarter past/to the hour and draw the hards on a clock five to show there are no sequence interest involving addition and draw the hards on a clock five to show there are no sequence interest involving addition and draw the hards on a clock five to show there are no sequence interest involving addition and draw the hards on a clock five to show there are no sequence interest to five the properties of the properties of 2.0 shapes, including the number of minutes in an industry of the properties of 2.0 shapes, including the number of sides and synthetic (in a sequence pounds (in an industry) of the properties of 2.0 shapes, including the number of sides and synthetic (in a sequence pounds (in an industry) of the properties of 2.0 shapes, including the number of sides and synthetic (in a sequence pounds (in an industry) of the properties of 3.0 shapes, including the number of sides and synthetic (in a sequence pounds (in an industry) of the properties of 3.0 shapes, including the number of sides and synthetic (in a sequence pounds (in an industry) of the properties of 3.0 shapes, including the number of sides and synthetic (in a sequence pounds (in an industry) of the properties of 3.0 shapes, including the number of sides and synthetic (in a sequence pounds (in an industry) of the properties of 3.0 shapes, including the number o			·			
Loss compare two or more objects of different weights						
I consequence and use symbols for pounds (E) and pence (p); combine amounts to make a particular value I consequence and use symbols for pounds (E) and pence (p); combine amounts to make a particular value I consequence and the same value I consequence						
The company of the		using >, < and =				
* to recognise and use symbols for purchas of an apenacy (b) combine amounts to all can recognise symbols reported by the control of make a purchaser value and the combinations of coins that equal the same value about 2 is an artifaction of money. * to solve single proteoms in a pastical context involving addition and subtraction of money. * to compare and sequence intervals of sime. * to tell and write the time to five minutes, including quarter past/ho the hour and draw the hands on a clock face to show these times. * to tell and write the time to five minutes, including quarter past/ho the hour and draw the hands on a clock face to show these times. * to know the number of minutes in an hour and the number of hours in a day to be interval to minutes in an hour and the number of hours in a day of the minutes of the sides and symmetry in a vertical time. * to identify and describe the properties of 2-D shapes, including the number of shape of shape. * to identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces. * to identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces. * to identify 2 D stapes on the surface of 3 D shapes, including the number of edges, vertices and faces. * to identify 2 D stapes on the surface of 3 D shapes, including the number of edges, vertices and faces. * to identify 2 D stapes on the surface of 3 D shapes, including the number of edges, vertices and faces. * to compare and an a triangle on a gyramid of the edges of a shape of the edg			·			
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1 o fined different combinations of comis that equal the same value 1 can fined different ways of making a given amount of money 1 can take away amounts of money 1 can take away amounts of money 1 can take away amounts of money five change 1 can take away amounts of money five change 1 can take away amounts of money five change 1 can take away amounts of money five change 1 can take away amounts of money five change 1 can take away amounts of money five change 1 can take away amounts of money five change 1 can take the take away amounts of money five change 1 can take the take away amounts of money five change 1 can take the time when it is not the hour and draw the hands on a clock face to show these times. 1 can take the time when it is not the hour 1 can take the time when it is not take the time when it is not take the time when it is not the hour 1 can take the time when it is not take the time when						
* to solve simple problems in a practical context involving addition and subtraction of money * Los compare and sequence intervals of time * to trell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times. * to trell and write the minutes for the minutes including quarter past/to the hour and draw the hands on a clock face to show these times. * to know the number of minutes in an hour and the number of hours in a day * to identify and describe the properties of shape * to identify and describe the properties of shape * to identify and describe the properties of shape * to identify and describe the properties of shape * to identify and describe the properties of shapes, including the number of adges, vertices and faces * to identify and describe the properties of shapes, including the number of adges, vertices and faces * to identify 20 shapes on the surface of 3.0 shapes, including the number of adges, vertices and faces * to identify 20 shapes on the surface of 3.0 shapes, including the number of adges, vertices and faces * to identify 20 shapes on the surface of 3.0 shapes, including the number of adges, vertices and faces * to identify 20 shapes on the surface of 3.0 shapes, including the number of adges, vertices and faces * to identify 20 shapes on the surface of 3.0 shapes, for example a dirice on a vertice of 3.3 shape * to identify 2.0 shapes on the surface of 3.0 shapes in close of 3.0 shapes in c		make a particular value	• I can combine coins to make a given value			
subtraction of money • Lo compare and sequence intervals of time • Lo tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times. • Lo tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times. • Lo know the number of minutes in an hour and the number of hours in a day • Lo know the number of minutes in an hour and the number of hours in a day • Lo know the number of minutes in an hour and the number of hours in a day • Lo know the number of minutes in an hour and the number of hours in a day • Lo know the number of minutes in an hour and the number of sides and symmetry in a vertical line • Lo identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces • Lo identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces • Lo identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces • Lo identify 3-D shapes on the surface of 3-D shapes, including the number of edges, vertices and faces • Lo identify 3-D shapes on the surface of 3-D shapes, including the number of edges, vertices and faces • Lo identify 3-D shapes on the surface of 3-D shapes, including the number of edges, vertices and faces • Lo identify 3-D shapes on the surface of 3-D shapes, including the number of edges, vertices and faces • Lo identify 3-D shapes on the surface of 3-D shapes, including the number of edges, vertices and faces • Lo identify 3-D shapes on the surface of 3-D shapes, including the face of 3-D shapes • Lo indentify 3-D shapes on the surface of 3-D shapes, including the face of 3-D shapes • Lo indentify 3-D shapes on the surface of 3-D shapes, including the face of 3-D shapes • Lo compare and sort common 3-D and 3-D shapes and everyday objects. • Lo compare and sort common 3-D and 3-D shapes and everyday objects. • Lo compare and sort common 3		• to find different combinations of coins that equal the same value	 I can find different ways of making a given amount of money 			
* Lon say which interested of time is shorter or longer than another		• to solve simple problems in a practical context involving addition and	I can add amounts of money			
Comments of the comment of the co		subtraction of money	• I can take away amounts of money (give change)			
**O to leartify and describe the properties of 2-D shapes, including the number of sides and symmetry in a vertical line		to compare and sequence intervals of time	I can say which interval of time is shorter or longer than another			
Care tell the time when it is on the hour			I can sequence events that happen to me			
Care tell the time when it is on the hour		• to tell and write the time to five minutes, including quarter past/to the hour and	• I can tell the time when it is a guarter past an hour			
Can call the time accurately to five minutes			· · ·			
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• to know the number of minutes in an hour and the number of hours in a day • to know the number of minutes in an hour • to identify and describe the properties of 2-D shapes, including the number of shapes • to identify and describe the properties of 3-D shapes, including the number of shapes • to identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces • to identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces • to identify 2-D shapes, including the number of edges, vertices and faces • to identify 2-D shapes, including the number of edges, vertices and faces • to identify 2-D shapes, including the number of edges, vertices and faces • to compare and faces • to identify 2-D shapes, including the number of edges, vertices and faces • to identify 2-D shapes, including the number of edges, vertices and faces • to identify 2-D shapes, including the number of edges, vertices and faces • to identify 2-D shapes, including the number of edges, vertices and faces • to identify 2-D shapes, including the number of edges, vertices and faces • to identify 2-D shapes, including the number of edges, vertices and faces • to identify 2-D shapes, including the number of edges, vertices and faces • to identify 2-D shapes, including the number of edges, vertices and faces • to compare and sort common 2-D shapes, including the number of edges, vertices and faces • to compare and faces • to compare and sort common 2-D shapes, including the number of edges, vertices and sort edges, vertices and faces • to compare and sort common 2-D shapes and everyday objects • to compare and sort common 2-D shapes and everyday objects • to compare common 2-D shapes to everyday objects • to compare common 2-D shapes to everyday objects • to compare common 2-D shapes to everyday objects • to compare common 2-D shapes to everyday			·			
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Can describe 2-0 Shapes using their properties		• to identify and describe the properties of 2-D shapes, including the number of				
Can count the sides of a 2-D shape	Geometry:	· · · · · · · · · · · · · · · · · · ·				
* Lo identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces * Lo identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces * Lo identify 2-D shapes on the surface of 3-D shapes, for example a circle on a count the edges of a 3-D shape * Lo identify 2-D shapes on the surface of 3-D shapes, for example a circle on a cylinder and a triangle on a pyramid * Lo compare and sort common 2-D and 3-D shapes and everyday objects. * Lo compare and sort common 2-D and 3-D shapes and everyday objects. * Lo compare common 2-D shapes to everyday objects * Lo compare common 2-D shapes to everyday objects * Lo compare common 2-D shapes to everyday objects * Lo compare common 2-D shapes to everyday objects * Lo compare common 3-D sha		sides dild symmetry in a vertical line				
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edges, vertices and faces can count the edges of a 3-D shape		• to identify and describe the properties of 3-D shapes, including the number of				
Can count the edges of a 3-D shape						
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• to identify 2-D shapes on the surface of 3-D shapes, for example a circle on a cylinder and a triangle on a pyramid • to compare and sort common 2-D and 3-D shapes and everyday objects. • to order and arrange combinations of mathematical objects in patterns • to use mathematical vocabulary to describe position, direction direction • to use mathematical vocabulary to describe position, direction as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise), and movement in a straight line. • to interpret and construct simple pictograms, tally charts, block diagrams and simple tables • to interpret single pictograms, tally charts, block diagrams and simple tables • I can identify the 2-D shapes on the faces of the 3-D shape • I can identify the 2-D shapes to everyday objects • I can compare common 2-D shapes to everyday objects • I can compare common 3-D shapes to everyday objects • I can order combinations of mathematical objects in patterns • I can order combinations of mathematical objects in patterns • I can order combinations of mathematical objects in patterns • I can order combinations of mathematical objects in patterns • I can order combinations of mathematical objects in patterns • I can use mathematical vocabulary to describe position • I can use mathematical vocabulary to describe direction • I can use mathematical vocabulary to describe movement • I can use mathematical vocabulary to describe movement • I can use mathematical vocabulary to describe movement • I can use mathematical vocabulary to describe movement • I can use mathematical vocabulary to describe direction • I can use mathematical vocabulary to describe direction • I can use mathematical vocabulary to describe direction • I can use mathematical vocabulary to describe direction • I can use mathematical vocabulary to describe direction • I can use mathematical vocabulary to describe direction • I can use mathematical vocabulary to describe			·			
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• I can compare common 3-D shapes to everyday objects • to order and arrange combinations of mathematical objects in patterns • to use mathematical vocabulary to describe position, direction of including distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise), and movement in a straight line. • I can use mathematical vocabulary to describe direction • I can use mathematical vocabulary to describe direction • I can use mathematical vocabulary to describe movement • I understand that a rotation is a turn • I know that a parter turn is a right angle • I know that a thire quarter turn is three right angles • I know that a thire quarter turn is three right angles • I know that a thire quarter turn is three right angles • I know the difference between clockwise and anti-clockwise • I can interpret simple pictograms, tally charts, block diagrams and simple tables • I can order combinations of mathematical objects in patterns • I can arrange combinations of mathematical objects in patterns • I can use mathematical ob			• I can compare common 2-D change to everyday phiects			
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Statistics Sta		• to order and arrange combinations of mathematical objects in natturns				
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angles for quarter, half and three-quarter turns (clockwise and anti- clockwise), and movement in a straight line. • I can use mathematical vocabulary to describe movement clockwise), and movement in a straight line. • I understand that a rotation is a turn • I understand that a rotation is a right angle • I know that a half turn is two right angles • I know that a three quarter turn is three right angles • I know the difference between clockwise and anti-clockwise • I can interpret simple pictograms, tally charts, block diagrams and simple tables • I can construct simple pictograms, tally charts, block diagrams and simple tables • I can construct simple pictograms, tally charts, block diagrams and simple tables			· · · · · · · · · · · · · · · · · · ·			
clockwise), and movement in a straight line. • I understand that a rotation is a turn • I know that a quarter turn is a right angle • I know that a half turn is two right angles • I know that a half turn is three right angles • I know that a three quarter turn is three right angles • I know the difference between clockwise and anti-clockwise • I can interpret simple pictograms, tally charts, block diagrams and simple tables • I can construct simple pictograms, tally charts, block diagrams and simple tables	direction					
• I know that a quarter turn is a right angle • I know that a half turn is two right angles • I know that a three quarter turn is three right angles • I know the difference between clockwise and anti-clockwise • I can interpret simple pictograms, tally charts, block diagrams and simple tables • I can construct simple pictograms, tally charts, block diagrams and simple tables • I can construct simple pictograms, tally charts, block diagrams and simple tables			·			
• I know that a half turn is two right angles • I know that a three quarter turn is three right angles • I know the difference between clockwise and anti-clockwise • I can interpret simple pictograms, tally charts, block diagrams and simple tables • I can construct simple pictograms, tally charts, block diagrams and simple tables • I can construct simple pictograms, tally charts, block diagrams and simple tables		clockwise), and movement in a straight line.				
• I know that a three quarter turn is three right angles • I know the difference between clockwise and anti-clockwise • I know the difference between clockwise and anti-clockwise • I can interpret simple pictograms, tally charts, block diagrams and simple tables • I can construct simple pictograms, tally charts, block diagrams and simple tables						
• I know the difference between clockwise and anti-clockwise • to interpret and construct simple pictograms, tally charts, block diagrams and simple tables • I can interpret simple pictograms, tally charts, block diagrams and simple tables • I can construct simple pictograms, tally charts, block diagrams and simple tables						
• to interpret and construct simple pictograms, tally charts, block diagrams and simple tables • to interpret and construct simple pictograms, tally charts, block diagrams and simple tables • I can interpret simple pictograms, tally charts, block diagrams and simple tables						
Statistics simple tables • I can construct simple pictograms, tally charts, block diagrams and simple tables						
	Chatistiss					
• to ask and answer simple questions by counting the number of objects in each • Lean count objects and sort them	Statistics	·				
		• to ask and answer simple questions by counting the number of objects in each	• I can count objects and sort them			
category and sorting the categories by quantity • I can ask questions about simple pictograms, tally charts, block diagrams and simple tables		category and sorting the categories by quantity				
• I can answer questions about simple pictograms, tally charts, block diagrams and simple tables						
• to ask and answer questions about totaling and compare categorical data. • I can ask questions about all of the data		• to ask and answer questions about totaling and compare categorical data.	·			
● I can ask questions about comparing categorical data			I can ask questions about comparing categorical data			



	• I can answer questions about all of the data		
	• I can answer questions about comparing categorical data		



	Aut	umn	Sp	ring	Summ	er
Term:	1	2	3	4	5	6
Year 3	Learning	objective		Success Criteria		Coverage
Number and place value	to count from 0 in multiples of 4, 8, 50 than a given number to recognise the place value of each digitens, ones)	and 100; finding 10 or 100 more or less	 I can count on and back in multiples of an count on and back in multiples of an count on and back in multiples of an count on and back in multiples of I can count on and back in multiples of I can find 10 more or 10 less than any of I can find 100 more or 100 less than any of I recognise the value of each digit in a long of I can partition a 3 digit number 	of 8 from zero of 50 from zero of 100 from zero of given number ony given number ony given number		
	• to compare and order numbers up to 1	1000	 I recognise that 0 is used as a place h I can say whether a number is bigger I can use the greater than and less th 	or smaller than another		
	• to identify, represent and estimate nur	mbers using different representations	 I can order numbers to 1000 I can identify numbers represented in I can represent numbers in different I can estimate amounts including me 	ways		
	• to read and write numbers to at least 1	L000 in numerals and in words	I can read numbers to at least 1000 I can write numbers to at least 1000	written in numerals written in words written in numerals		
	• to solve number problems and practical	al problems involving these ideas.	 I can partition 3 digit numbers in diffe I can use a variety of representations I can use my knowledge of place value 	erent ways to solve one and two step numl	elp me solve problems	
Addition and subtraction	to add and subtract numbers mentally	d ones d tens	 I can add a single digit to a three digit I can subtract a single digit from a three I can add a tens number to a three die I can subtract a tens number from a tens add a hundreds number to a three I can add a hundreds number from a tens subtract a hundreds number from a tens and tens and the subtract and the answer to an additent and the subtract and the answer to an additent and the subtract and the subtraction calculation as a subtraction calculation as and the subtraction calculation as a subtraction calculation as a subtraction calculation as a subtraction calculation. 	number mentally ee digit number mentally git number mentally hree digit number mentally ee digit number mentally m a three digit number mentally ion calculation. ction calculation. i inverse to check an answer.		
	to add and subtract numbers with up t methods of columnar addition an to estimate the answer to a calculation	d subtraction	 I can add a two digit number to a three I can add a three digit number to a the I can subtraction a two digit number I can subtraction a three digit number I can use a column method of additional can use a column method of subtraction at three digit number I can use a column method of subtractional can use a column method of subtractional can use a column method of additional can use a column method of subtractional can use a column method of subtracti	the digit number using written column method a three digit number using written column method a three digit number using written column to a three digit number using written column without carrying stion without exchanging no including carrying across the tens bound stion including exchanging from the tens no including carrying across the hundreds bettion including exchanging from the hundreds.	nod thod nn method umn method ary	



** Los obey proteins, including missing number problems, using number facts. place value, and more complex addition and subtraction. ** to solve proteins, including missing number problems, using number facts. place value, and more complex addition and subtraction. ** to recall and use multiplication and division ** to write an expect of the state of the stat		anctuare			
I can use an addition calculation as an inverse to check an answer. I can use a substitution exclusion on a minement to check an answer. I can use a substitution profession from the inverse to check an answer. I can use on addition or substraction calculation as an inverse to check an answer. I can use on addition profession shoulding missing numbers using number using number facts. I can solve addition profession shoulding missing numbers using number using number using number using numbers using using		answers	I can estimate the answer to a subtraction calculation. I can estimate the answer to a subtraction calculation.		
• Los uses a subtraction calculation as an inverse to check an answer. • Los uses a addition or subtraction calculation as an inverse to check an answer. • Los uses a addition or subtraction graining number suring number facts. • Los solve addition problems, missing number suring number facts. • Los solve addition problems missing number suring number facts. • Los notes addition problems missing number suring number facts. • Los notes addition problems in moving missing number suring number facts. • Los notes addition problems in moving missing number and surplems using place value. • Los notes addition problems in moving missing number and surplems using place value. • Los notes and the movement of the surplems of the surplems using place value. • Los notes and the movement of the surplems using place value. • Los notes and the moving missing number using place value. • Los notes and the moving missing number using place value. • Los notes and the moving missing number using place value. • Los notes and the moving missing number using place value. • Los notes and the moving missing number using place value. • Los notes and the moving missing number using place value. • Los notes and of the moving missing number using place value. • Los notes and of the moving missing number using place value. • Los notes and of the moving missing number using place value. • Los notes and of the moving missing number using place value. • Los notes and of the moving missing number using place value. • Los notes and of the division facts to 12 × 4 • Los notes and of the division facts to 12 × 4 • Los notes and of the division facts to 12 × 3 • Los notes and the division facts to 12 × 3 • Los notes and the division facts to 12 × 3 • Los notes and the division facts to 12 × 3 • Los notes and the division facts to 12 × 3 • Los notes and the division facts to 12 × 3 • Los notes and the division facts to 12 ×					
• to solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. • Los notes destination problems involving missing numbers using number facts. • Los notes understand problems involving missing numbers using number facts. • Los notes understanding numbers using number using place value. • Los notes were complex addition problems involving missing numbers using place value. • Los notes were complex subtraction problems. • Los notes were w					
* to solve problems, including missing number problems, using number facts. place value, and more complex addition and subtraction. **It can solve addition problems involving missing numbers using place value. **It can solve addition problems involving missing numbers using place value. **It can solve addition problems involving missing numbers using place value. **It can solve addition problems involving missing numbers using place value. **It can solve addition problems. **It can solve addition problems involving missing numbers using place value. **It can solve more complex dutatration problems. **It can solve more complex dutatration problems. **It can recall all of the divisor facts to 12 x 3 **It can recall all of the divisor facts to 12 x 3 **It can recall all of the divisor facts to 13 x 3 **It can recall all of the divisor facts to 13 x 3 **It can recall all of the divisor facts to 13 x 3 **It can recall all of the divisor facts to 12 x 4 **It can recall all the multiplication facts to 12 x 4 **It can recall all the multiplication facts to 12 x 4 **It can recall all the multiplication facts to 12 x 4 **It can recall all the multiplication facts to 12 x 4 **It can recall all the multiplication facts to 12 x 4 **It can recall all the multiplication facts to 12 x 4 **It can recall all the multiplication facts to 12 x 4 **It can recall all the multiplication facts to 12 x 4 **It can recall all the multiplication facts to 12 x 4 **It can recall all the multiplication facts to 12 x 4 **It can recall all the multiplication facts to 12 x 4 **It can recall all the multiplication facts to 12 x 4 **It can recall all the multiplication facts to 12 x 4 **It can recall all the multiplication facts to 12 x 4 **It can recall all the multiplication facts to 12 x 4 **It can recall all the multiplication facts to 12 x 4 **It can recall all the multiplication facts to 12 x 4 **It can recall all the multiplication facts to 12 x 3 **It can recall all the multiplication facts to 12 x 4 **It			l		
Can solve subtraction problems involving missing numbers using number (ods.)		• to colve problems, including missing number problems, using number facts			
can solve addition problems involving missing numbers using place value.					
can solve subtraction problems involving missing numbers using place value.		place value, and more complex addition and subtraction.			
* to recall and use multiplication and division facts for the 3, 4 and 8 multiplication and division and division and division facts for the 3, 4 and 8 multiplication and multiplication and division facts for the 3, 4 and 8 multiplication and multiplication facts to 12 x 3 • I can recall all of the multiplication facts to 12 x 3 • I can recall all of the multiplication facts to 12 x 4 • I can recall all of the multiplication facts to 12 x 3 • I can recall all of the division facts to 48 x 4 • I can recall all of the division facts to 48 x 4 • I can recall all of the division facts to 12 x 3 • I can recall all of the division facts to 12 x 3 • I can recall all the division facts to 12 x 3 • I can recall all the division facts to 36 x 3 • I can recall all the division facts to 36 x 3 • I can recall all the division facts to 36 x 3 • I can recall all the division facts to 36 x 3 • I can recall all the division facts to 36 x 3 • I can recall all the division facts to 36 x 3 • I can recall all the division facts to 36 x 3 • I can recall all the division facts to 36 x 3 • I can recall all the division facts to 36 x 3 • I can recall all the division facts to 36 x 3 • I can recall all the division facts to 36 x 3 • I can recall all the division facts to 12 x 4 • I can recall all the division facts to 36 x 3 • I can recall all the division facts to 36 x 3 • I can recall all the division facts to 36 x 3 • I can recall all the division facts to 36 x 3 • I can recall all the division facts to 36 x 3 • I can recall all the division facts to 50 x 12 x 4 • I can recall all the division facts to 36 x 3 • I can recall all the division facts to 50 x 12 x 4 • I can recall all the division facts to 50 x 12 x 4 • I can recall all the division facts to 50 x 12 x 4 • I can recall all the division facts to 50 x 12 x 4 • I can recall all the division facts to 50 x 12 x 4 • I can recall all the division facts to 50 x 12 x 4 • I can recall all the division facts to 50 x 12 x 4 • I can recall all the division facts to 50 x 12 x 4 • I can					
* to recall and use multiplication and division facts for the 3, 4 and 8 multiplication in tables * to recall and use multiplication and division facts for the 3, 4 and 8 multiplication in tables * to a recall all of the division facts to 12 × 3 * I can recal all of the division facts to 12 × 4 * I can recal all of the division facts to 12 × 4 * I can recal all of the division facts to 12 × 4 * I can recal all of the division facts to 13 × 4 * I can recal all of the division facts to 13 × 4 * I can recal all the division facts to 12 × 4 * I can recal all the division facts to 12 × 4 * I can recal all the division facts to 12 × 4 * I can recal all the division facts to 12 × 4 * I can recal all the division facts to 12 × 8 * I can recal all the division facts to 26 × 8 * I can recal all the division facts to 26 × 8 * I can recal all the division facts to 26 × 8 * I can recal all the division facts to 26 × 8 * I can recal all the division facts to 26 × 8 * I can recal all the division facts to 26 × 8 * I can recal all the division facts to 26 × 8 * I can recal all the division facts to 26 × 8 * I ca					
** to recall and use multiplication facts for the 3, 4 and 8 multiplication facts to 12 x 3					
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friends, 4 cakes shared equally between 8 children) • I can use my multiplication and related division facts to solve problems involving measures (e.g. 4 times as high, 8 times as					
• I can use my multiplication and related division facts to solve problems involving measures (e.g. 4 times as high, 8 times as					
long, etc)					
• I can solve missing number problems, involving inverse operations					
• I can solve word problems involving scaling of whole numbers. eg 4 times as high as a 4 m wall.					
• I can solve correspondence problems in which n objects are connected to m objects. eg 12 cakes shared equally between 4					
children.					
Fractions • to count up and down in tenths; recognise that tenths arise from dividing an • I can recognise when an object/shape is divided into 10 equal parts and that each part/section is 1 tenth.	Fractions	• to 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 • I can count forwards/backwards in tenths, including crossing the boundary from decimals to integer mixed numbers.		-			
by 10 • I understand the connection between the fraction and decimal representations of tenths.					
• I understand that tenths are the result of 1 digit numbers or quantities divided by 10.			·		
• I can apply my understanding of tenths to all contexts, e.g. number, measure etc. for example 2mm is equivalent to 2			l ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		
tenths of a centimetre.					



			 	MY AC	
	to recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	 I can correctly use the terms numerator and denominator. I can recognise, find and write a tenth of a given number (unit fraction). I can recognise, find and write fractions for several tenths of a given number (non-unit fraction). 			
	• to recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators	• I can answer a problem expressing my answer as a fraction, e.g. If a man has 4 apples, 4 oranges, 4 pears and 4 bananas, what fraction/how much of the fruit are apples.			
	to recognise and show, using diagrams, equivalent fractions with small denominators	• I can show/recognise equivalence between fractions and decimals, e.g. 5/10 = ½ = 0.2			
	• to add and subtract fractions with the same denominator within one whole (e.g. 5/7 + 1/7 = 6/7)	 I understand that the denominator represents the total numbers of the parts in 1 whole. I understand that the numerator shows how many parts of the whole are represented. I can add fractions with small, identical denominators, that total up to one whole. I can subtract fractions with small, identical denominators, that total up to one whole. 			
	to compare and order unit fractions with the same denominator	 I can compare and order fractions or decimals (tenths, quarters and eighths) I can order and place decimals, fractions and whole numbers on a number line. 			
	to solve problems that involve all of the above	I can think of a strategy to solve problems			
Measures	to measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	 I can compare two or more lengths I can compare two or more masses I can compare two or more capacities I can measure in mm, cm, and m I can measure in g and kg 			
		I can measure in I and mI I can add two or more lengths I can add two or more masses I can add two or more capacities	П		
		 I can subtract two or more lengths I can subtract two or more masses I can subtract two or more capacities I can scale simple measures 	П		
		I know simple equivalents of length, mass and capacity			
	• to measure the perimeter of simple 2-D shapes	I can measure the perimeter of a simple 2D shape			
	to measure the perimeter of simple 2 b shapes	I know how to find the perimeter			
	• to add and subtract amounts of money to give change, using both £ and p in	• I can use the £ and p symbol			
	practical contexts	I can add amounts of money, including mixed units			
	· ·	I can subtract amounts of money to give change			
		I can recognise the value of coins			
	• to tell and write the time from an analogue clock, including using Roman	• I can identify 1 minute intervals on a clock face.			
	numerals from I to XII, and 12-hour and 24-hour clocks	• I can tell the time to the nearest minute using an analogue clock.			
		 I can recognise and read Roman Numerals (1 − 12). 			
		I can tell the time using a clock with Roman Numerals.			
		• I can say the time using a 12 hour clock.			
		 I can write the time using a 12 hour clock. I can say the time using a 24 hour clock. 			
		• I can write the time using a 24 hour clock.			
	to estimate and read time with increasing accuracy to the nearest minute;	I can read the time to the nearest minute.			
	record and compare time in terms of seconds, minutes, hours and o'clock;	I can estimate time to the nearest minute.			
	use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight	• I can write the time in terms of; seconds, minutes, hours and o'clock.			
		• I can work out the difference and compare time e.g. seconds, minutes, hours and o'clock.			
		• I can use the vocabulary of time correctly (a.m. and p.m., morning, afternoon, noon and midnight)			
	• to know the number of seconds in a minute and the number of days in each	• I know there are 60 seconds in a minute.			
	month, year and leap year	• I know the number of days in each month.			
		• I know the number of days in a year and a leap year.			
	 to compare durations of events, for example to calculate the time taken by particular events or tasks. 	• I can compare the duration of events e.g. T.V listings, bus schedules and journey times			



Geometry: properties of shapes	• to draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations; and describe them	 I can draw 2-D shapes I can describe the properties of 2D shapes using accurate language including lengths of lines and angles I can make 3D shapes using modelling materials I can recognise 3D shapes in different orientations I can describe the properties of 3D shapes using accurate language including lengths of lines and angles I can describe 3D shapes from different orientations I can identify whether polygons and polyhedra have lines of symmetry 	
	 to recognise angles as a property of shape or a description of a turn to identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle 	 I can recognise angles as a property of a shape I can recognise angles as a description of a turn I can identify right angles I can recognise that 2 right angles make a half turn I can recognise that 3 right angles make 3 quarters of a turn I can recognise that 4 right angles make a complete turn I can identify whether angles are greater than a right angle I can identify whether angles are less than a right angle 	
	to identify horizontal, vertical, perpendicular and parallel lines in relation to other lines.	 I can identify horizontal and vertical lines in relation to other lines I can identify parallel lines in relation to other lines I can identify perpendicular lines in relation to other lines 	
Statistics	to interpret and present data using bar charts, pictograms and tables	◆ I can measure straight lines to the nearest centimetre ◆ I can connect decimals and rounding when drawing straight lines	
	 to solve one-step and two-step questions such as 'How many more?' and 'How many fewer?' using information presented in scaled bar charts and pictograms and tables. 	 I can solve one step questions using information presented in a scaled bar chart. I can solve one step questions using information presented in a pictograms. I can solve one step questions using information presented in a table. I can solve two step questions using information presented in a scaled bar chart. I can solve two step questions using information presented in a pictograms. I can solve two step questions using information presented in a table. I can interpret data presented in many contexts. 	



	Aut	umn	Sp	ring	Summ	ner	
Term:	1	2	3	4	5		6
Year 4	Learning	objective		Success Criteria			Coverage
Number and place value	• to count in multiples of 6, 7, 9, 25 and		 I can count in multiples of 6, 7, 9, 25 I know the related multiplication and I know the inverse facts of these multiplication 	d division facts up to 12 x12 Itiples.			
	• to find 1000 more or less than a given		 I can find 1000 more than any number I can find 1000 less than any number 	r			
	• to count backwards through zero to in		I can count backwards through zero				
	to recognise the place value of each di	git in a four-digit number (thousands,	• I recognise the value of each digit in	a 4 digit number			
	hundreds, tens, and ones)		I can partition a 4 digit number				
		14000	I understand that 0 is used as a place				
	 to order and compare numbers beyon to identify, represent and estimate nu 		I can order and compare numbers in I can identify numbers represented in	context e.g. temperature, measures and m	oney		
	• to identify, represent and estimate nu	mbers using different representations	I can identify numbers represented if I can represent numbers in different	•			
			I can estimate amounts including me	•			
			=	per system to include decimal numbers and t	fractions		
			_	the use of measurement instruments			
	• to round any number to the nearest 10	0, 100 or 1000	• I can round numbers to 10, 100 or 10	000 in context			
			• I can tell you what these numbers m	ean and the reason for rounding up or down	n to the nearest 10,100or 1000		
			 I can apply rounding in helping me so 	olve worded problems or mathematical inve	estigations.		
	 to solve number and practical problem increasingly large positive number 		 I can use 4 digit numbers in different method. 	t ways to solve one and two step number pr	oblems, through the use of column		
				s to solve problems including fractions and r			
				ue of numbers beyond 1000 to help me solv			
				fractions and decimals to reason with, disc	uss and solve problems		
	 to read Roman numerals to 100 (I to C system changed to include the co 	*	I can read Roman numerals to 100 (I I can understand consents of how the	to C) e numeral system changed to include the co	ancent of zero and place value		
	system changed to include the co	oncept of zero and place value.	-	rite Whole numbers in historical context e.			
Addition and	• to add and subtract numbers with up	to 4 digits using the formal written		numbers with up to 4 digits (e.g. 2d + 3d, 3d			
subtraction	·	nd subtraction where appropriate		btract numbers with up to 4 digits (e.g 3d-2			
			I can estimate answers to a calculation		•		
	 to estimate and use inverse operation 	s to check answers to a calculation	 I can use inverse operations to check 	canswers to a calculation.			
		step problems in contexts, deciding which	 I can identify the operation(s) to use 				
	operations and methods to use a	and why	· ·	btraction problems within a context (extend	ling to decimal units of measure).		
NA. Itialiantian			I can justify the methods I have used	•			
Multiplication and division	to recall multiplication and division fact	cts for multiplication tables up to 12×12	 I can recall all the multiplication facts I can recall all of the division facts to 				
and division			I can recall all the multiplication facts				
			I can recall all of the division facts to				
			I can recall all the multiplication facts				
			I can recall all of the division facts to				
			 I can recall all the multiplication facts 				
			I can recall all of the division facts to	144 ÷ 12			
	• to use place value, known and derived		I can multiply any number by 0				
		dividing by 1; multiplying together three	I can divide any number by 0				
	numbers		I can multiply any number by 1				
			• I can divide any number by 1				



		• I can multiply three numbers (2x3x4) using brackets to help my calculations (e.g. (2x3) x 4)			
	• to recognise and use factor pairs and commutativity in mental calculations				
	·				
		• I can write a multiplication number sentence and work out the related multiplication and division sentences			
	I can must give manufact process using the product to being my calculations (e.g., Chick) x 1 I can use a informative written implication and division forth in father gains up to 144. I can use a informative written implication and division forth in father gains up to 144. I can use a informative written implication and division forth in father gains up to 144. I can use a informative written implication and division forth in father gains up to 144. I can use a informative written method to calculate 2 digit x 1 digit statements (e.g. short multiplication and division in a consequence of the consequence of t				
	formal written layout	• I can use a formal written method to calculate 2 digit x 1 digit statements (e.g. short multiplication and division)			
	to solve problems involving multiplying and adding, including using the	I know whether to use multiplication or division to solve a problem			
	distributive law to multiply two-digit numbers by one digit, integer scaling	I can solve problems involving multiplication			
	problems and harder correspondence problems such as n objects are	I can solve problems involving division			
	connected to m objects	• I can solve problems involving multiplication and addition.			
		• I can work out intervals on a scale using my times table facts			
		• I can use my multiplication and related division facts to solve problems involving objects with remainders (e.g. 3 cakes			
		shared equally between 10 children)			
		 I can use repeated addition to solve 2 digit number x 1 digit number calculations 			
		 I can mentally calculate 3 digit x 1 digit statements using my tables facts 			
		• I can mentally calculate 3 digit x 1 digit statements and their related division facts.			
		• I can use multiplication to solve two-step problems			
	I can use a formal written method to calculate 2 digit x 1 digit statements (e.g. short multiplication and dividence to solve problems involving multiplying and adding, including using the distributive law to multiply two digit, integer scaling problems and harder correspondence problems such as n objects are connected to mobjects I can solve problems involving multiplication or division to solve a problem involving multiplication and addition. I can solve problems involving multiplication or division to solve a problem involving multiplication and addition. I can solve problems involving multiplication and addition. I can solve problems involving multiplication and addition. I can use my multiplication and related division facts to solve problems involving objects with remainders (in shared equally between clinication) and time and the cancel of the control of th	• I can use division to solve two-step problems.			
Fractions	• to recognize and show using diagrams , families of common equivalent fractions	• I can understand the relationship between denominators and their divisors.			
(including		I can recognise equivalent fractions			
decimals)	• I can mentally calcomagnets and show using diagrams, families of common equivalent fractions • to recognize and show using diagrams, families of common equivalent fractions • I can use division to a constant the constant that he constant the constant the constant the constant the constant that he constant the constant the constant the constant that he constant the constant the constant that he constant the co	• I can show equivalent fractions using diagrams or shapes			
		I can find common equivalent fractions			
		• I can simplify fractions in order to calculate equivalences using factors and multiples.			
	· · · · · · · · · · · · · · · · · · ·	• I can recognise when an object/shape is divided into 100 equal parts and that each part/section is 1 hundredth.			
	dividing an object by a hundred and dividing tenths by ten	• I can count forwards/backwards in hundredths, including crossing the boundary from decimals to integer mixed numbers			
		· · · · · · · · · · · · · · · · · · ·			
		·			
		- · · · · · · · · · · · · · · · · · · ·			
		= ;			
		·			
	·	• •			
	• to add and subtract fractions with the same denominator.				
	i i i i i i i i i i i i i i i i i i i	·			
	hundredths	·			
		-			
		·			
		·			
		- · · · · · · · · · · · · · · · · · · ·			
	• to recognise and write decimal equivalents to 1/4; 1/2; 3/4				
		·			
	• to find the effect of dividing a one- or two-digit number by 10 and 100, • I can recognise when a 1 or 2 digit number has been divided by 10 or 100.				
		· · · · · · · · · · · · · · · · · · ·			
	hundreatns	·			
		·			
	·				
		·			
	places	I can find the difference between two numbers with 1 decimal place.			
		• I can compare two numbers with 2 decimal places in terms of <>			



		I can find the difference between two numbers with 2 decimal places.					
	to solve simple measure and money problems involving fractions and decimals	I can solve simple measure and money problems involving fractions.					
	to two decimal places.	I can solve simple measure and money problems involving two decimals.					
		I can solve simple measure and money problems involving fractions and decimals.					
Measures	 to convert between different units of measure (e.g. kilometre to metre; hour to minute) 	• I can convert measures					
	• to measure and calculate the perimeter of a rectilinear figure (including squares)	I can measure a perimeter of a rectilinear figure in centimetres					
	in centimetres and metres	I can measure a perimeter of a rectilinear figure in metres					
	to find the area of rectilinear shapes by counting squares	I can count the squares to find the area					
	• to estimate, compare and calculate different measures, including money in	I can estimate different measures					
	pounds and pence	I can compare different measures					
		I can calculate different measures					
	• to read, write and convert time between analogue and digital 12 and 24-hour	• I can read the time on a 12 hour analogue clock.					
	clocks	• I can read the time on a 12 hour digital clock.					
		• I can read the time on a 24 hour digital clock.					
		• I can write the time on a 12 hour analogue clock.					
		• I can write the time on a 12 hour digital clock.					
		• I can write the time on a 24 hour digital clock.					
		• I can convert time between analogue and digital to 12 hours.					
		• I can convert time between analogue and digital to 24 hours.					
	• to solve problems involving converting from hours to minutes; minutes to	• I can convert between hours and minutes in real life situations (eg. TV listings).					
	seconds; years to months; weeks to days.	• I can convert between minutes and seconds in real life situations (eg. bus timetables).					
		• I can convert between years and months in real life situations (eg. calendars).					
		• I can convert between weeks and days in real life situations (eg. calendars).					
Geometry:	• to compare and classify geometric shapes, including quadrilaterals and triangles,	• I can compare and classify the properties and sizes of quadrilaterals for example: parallelogram, rhombus, trapezium					
properties of	based on their properties and sizes	• I can compare and classify the properties and sizes triangles for example: isosceles, equilateral, scalene					
shapes	to identify acute and obtuse angles and compare and order angles up to two	I can identify acute angles					
	right angles by size	• I can identify obtuse angles					
		• I can compare and order angles up to 180 degrees					
		• I can identify a protractor					
		• I can compare lengths and angles to decide if a polygon is regular or irregular					
	• to identify lines of symmetry in 2-D shapes presented in different orientations	I can identify lines of symmetry in 2D shapes in different orientations					
	to complete a simple symmetric figure with respect to a specific line of	I can draw symmetrical patterns					
	symmetry.	I can complete a simple symmetric figure with one line of symmetry					
		• I can recognise line symmetry in a variety of diagrams including where the line of symmetry does not dissect the original shape (NS)					
Geometry:	• to describe positions on a 2-D grid as coordinates in the first quadrant	I can describe positions on a 2D grid as co-ordinates in the first quadrant					
position,		I can draw a pair of axes in one quadrant with equal scales and integer labels					
direction		• I can use ICT tools to plot co-ordinates					
un conon	 to describe movements between positions as translations of a given unit to the left/right and up/down 	• I can translate a shape in one quadrant					
	• to plot specified points and draw sides to complete a given polygon.	I can read, write and use pairs of co-ordinates					
	to plot specified points and araw sides to complete a given polygon.	I can plot specified points and draw sides to complete a given polygon					
Statistics	to interpret and present discrete data using bar charts and continuous data using	• I can interpret discrete data using bar charts with scales beyond 2, 5, 10.					
	bar charts and time (line?) graphs	• I can interpret continuous data using bar charts with scales beyond 2, 5, 10.					
	Sar charts and time (mer) graphs	• I can interpret continuous data using but clidits with scales beyond 2, 5, 10.					
		• I can present discrete data using bar charts with scales beyond 2, 5, 10.					
		I can present continuous data using bar charts with scales beyond 2, 5, 10.					
		• I can present continuous data using but charts with scales beyond 2, 5, 10.					
		I am starting to understand how continuous data within a graph shows changes over time.					
	to solve comparison, sum and difference problems using information presented	I can solve comparison problems using information presented in bar charts, pictograms and other graphs					
	in bar charts, pictograms, tables and other graphs.	I can solve comparison problems using information presented in tables					
	m sa. charts, pictobrand, tubies and other Stupils.	 I can solve sum and difference problems using information presented in bar charts, pictograms and other graphs. 					
		- I can some sam and amerence problems using information presented in bar charts, pictograms and other graphs.					

<u>Mathematics - Medium Term Plan</u>



• I can solve sum and difference problems using information presented in tables



	Aut	umn	Sp	ring	Sumn	ner	
Term:	1	2	3	4	5		6
Year 5	Learning	objective		Success Criteria		Co	verage
Number and place value	the value of each digit	nbers to at least 1 000 000 and determine	 I can read numbers to at least 1 000 I can determine the value of each dig I can write numbers to at least 1 000 I can order numbers to at least 1 000 I can compare (<>) numbers to at least 	git for numbers to at least 1 000 000 000 0000 ast 1 000 000			
	to count forwards or backwards in step up to 1 000 000		 I can count forwards or backwards in I can count forwards or backwards in 	steps of 10 for any given number up to 1 00 steps of 100 for any given number up to 1 0 steps of 1000 for any given number up to 1	000 000 L 000 000		
	• to interpret negative numbers in cont			ontext (including different number lines and	·		
	positive and negative whole num	to the nearest 10, 100, 1000, 10 000 and	 I can count forwards and backwards I can round any number up to 1 000 	with positive and negative whole numbers t	tnrougn zero		
	100 000	to the hearest 10, 100, 1000, 10 000 and	 I can round any number up to 1 000 I can round any number up to 1 000 I can round any number up to 1 000 I can round any number up to 1 000 I can round any number up to 1 000 	000 to the nearest 100 000 to the nearest 1000 000 to the nearest 10 000			
	to solve number problems and practice	al problems that involve all of the above	 I can solve number problems and pra I can solve number problems and pra I can solve number problems and pra 	actical problems that involve ordering numb actical problems that involve counting/forwactical problems that involve negative numb actical problems that involve rounding numb	ards backwards eers		
	• to read Roman numerals to 1000 (M) a numerals.	and recognise years written in Roman	 I can recognise individual Roman nur I can read Roman numerals to 1000 (I can recognise years written in Roman 	M) ie CXXIV			
Addition and subtraction	to add and subtract whole numbers wi formal written methods (columnar)		 I can subtract whole numbers with 4 I can add whole numbers with 5 digit 	es using written column methods, including of digits using written column methods, including of using written column methods, including of digits using written column methods, including of digits using written column methods, including of the column methods.	ding crossing the tens barrier. crossing the tens barrier.		
	• to add and subtract numbers mentally	with increasingly large numbers		ts up to 5 places without crossing the tens b			
				n digits up to 5 places without crossing the to	ens barrier.		
	 to use rounding to check answers to can of a problem, levels of accuracy 	alculations and determine, in the context	• I can round numbers to the nearest 1	LO, 100 and 1000. ck answers to calculations that I complete.			
	to solve addition and subtraction mult which operations and methods to		 I can choose the correct operation w I can choose a suitable method wher 	hen solving a multi-step problem. n solving a multi-step problem. nod when solving a multi-step problem.			
Multiplication and division	common factors of two numbers	ng finding all factor pairs of a number, and	 I can identify multiples of calculation I can identify all factor pairs of a give I can identify common factors of two 	s up to 12 x 12 n number numbers			
	 to solve problems involving multiplicate used by decomposing them into 	tion and division where larger numbers are their factors	 I can solve problems involving multip I can solve problems involving multip I can solve problems involving multip I can solve problems involving divisio I can solve problems involving divisio I can solve problems involving divisio I can decompose larger numbers into 	olication using factors and multiples olication using squares and cubes on on using factors and multiples on using squares and cubes			



• to know and use the vocabulary of prime numbers, prime factors and composite • I know what a prime number is	
(non-prime) numbers ● I can use the term prime number correctly	
• I know what a prime factor is	
• I can use the term prime factor correctly	
• I know what a composite (non-prime) number is	
• I can use the term composite (non-prime) number correctly	
• I know what a square number is	
• I can use the term square number correctly	
• I know what a cube number is	
• I can use the term cube number correctly	
• to establish whether a number up to 100 is prime and recall prime numbers up • to establish whether a number up to 100 is prime and recall prime numbers up • I can find if a number up to a 100 is a prime.	
to 19 • I can recall prime numbers up to 19.	
• to multiply numbers up to 4 digits by a one- or two-digit number using an formal • I can multiply numbers up to 4 digits by a one- digit number using an formal	
written method, including long multiplication for two-digit numbers • I can multiply numbers up to 4 digits by a one-digit number. • I can multiply numbers up to 4 digits by a two digit number.	
• I can use a formal written method, including long multiplication for two digit number.	
• to multiply and divide numbers mentally drawing upon known facts • I can multiply numbers mentally.	
• I can divide numbers mentally	
• I can multiply numbers drawing upon known facts.	
● I can divide numbers drawing upon known facts.	
• to divide numbers up to 4 digits by a one-digit number using the formal written • I can divide numbers up to 4 digits by a one digit number.	
method of short division and interpret remainders appropriately for the • I can divide numbers up to 4 digits by a two digit number.	
context ● I can use a formal written method, including short division showing remainders suitable for the context.	
● I can show my answers for division in different ways including remainders as fractions, decimals or by rounding.	
• to multiply and divide whole numbers and those involving decimals by 10 • I can multiply whole numbers by 10, 100 and 1000.	
• I can multiply decimals by 10, 100 and 1000.	
• I can divide whole numbers by 10, 100 and 1000.	
• I can divide decimals by 10, 100 and 1000.	
• I can multiply and divide by 1000 to convert between units e.g. km and m.	
• to recognise and use square numbers and cube numbers and the notation for • I know what a square number is	
squared numbers (2) and cubed (3) • I can use the term square number correctly	
• I can use the notation for square numbers.	
• I know what a cube number is	
• I can use the term cube number correctly	
• I can use the notation for cubed numbers correctly.	
• I can construct equivalent statements for square and cube numbers.	
• to solve problems involving addition, subtraction, multiplication and division and • I can solve problems using a combination of addition, subtraction, multiplication and division.	
a combination of these, including understanding the meaning of the equals • I can explain the meaning of the equals sign.	
sign • I can use the equals sign to solve missing number problems	
• I can use the equals to express information such as; a(b + c)=ab +ac.	
• I can solve problems including scaling by simple rates.	
• to compare and order fractions whose denominators are all multiples of the	
(including same number • I can order fractions whose denominators are all multiples of the same number.	
• to identify, name and write equivalent fractions of a given fraction, represented • I can identify equivalent fractions of a given fraction (including tenths and hundredths) represented visually.	
percentages) visually, including tenths and hundredths • I can write equivalent fractions of a given fraction (including tenths and hundredths) represented visually.	
• to recognise mixed numbers and improper fractions and convert from one form • I can recognise mixed numbers.	
to the other and write mathematical statements >1 as a mixed number • I can recognise improper fractions	
(e.g. 2/5 + 4/5 = 6/5 = 11/5) ● I can convert an improper fraction to a mixed number and vice versa	
• I can write statements involving mixed numbers in a calculation with the same denominator.	
• to add and subtract fractions with the same denominator and multiples of the	
same number • I can subtract fractions with the same denominator	
• I can add fractions with the same multiple	



		a Lean subtract fractions with the same multiple		
		I can subtract fractions with the same multiple I can subtract fractions with the same multiple I can subtract fractions with the same multiple		
		• I can add and subtract fractions through a variety of increasingly complex problems. (nsg)		
		I can count forward and backward in simple fractions (nsg)		
	• to multiply proper fractions and mixed numbers by whole numbers, supported	• I can multiply proper fractions by whole numbers, supported by materials and diagrams	sugh a variety of increasingly complex problems. (nsg) simple fractions (nsg) note numbers, supported by materials and diagrams of numbers, supported by materials and diagrams y multiplying (e.g. % of 24) (nsg) ituations and different contexts. (nsg) ons ituations and different contexts. (nsg) ons ituations and vice versa, including problem solving including measures. (nsg) and relate them to tenths and relate them to tenths and relate them to decimal equivalents and relate them to decimal equivalents and relate them to decimal equivalents and places to the nearest whole number and to one decimal place decimal places ed edicimal places ed edicimal places every upon three decimal places. By an understand that per cent relates to "number of parts per hundred" with denominator hundred, and as a decimal fraction on work on the relation of the properties of the proper	
	by materials and diagrams.	I can multiply mixed numbers by whole numbers, supported by materials and diagrams		
		• I can find the fraction of a number by multiplying (e.g. ¾ of 24) (nsg)		
		• I can recognise fractions in real life situations and different contexts.(nsg)		
	• to read and write decimal numbers as fractions (e.g. 0.71 = 71/100)	• I can read decimal numbers as fractions		
		• I can write decimal numbers as fractions		
		• I can convert decimal numbers to fractions and vice versa, including problem solving including measures. (nsg)		
	• to recognise and use thousandths and relate them to tenths, hundredths and	I can recognise and use thousandths and relate them to tenths		
	decimal equivalents	I can recognise and use thousandths and relate them to hundredths and		
		I can recognise and use thousandths and relate them to decimal equivalents		
	• to round decimals with two decimal places to the nearest whole number and to	I can round decimals with two decimal places to the nearest whole number		
	one decimal place	l · · · · · · · · · · · · · · · · · · ·		
	·	·		
	• to read, write, order and compare numbers with up to three decimal places	• I can read numbers with up to three decimal places		
		• I can write numbers with up to three decimal places		
		I can order and compare numbers with up to three decimal places		
	• to solve problems involving number up to three decimal places.	• I can solve problems involving number up to three decimal places.		
	• to recognise the per cent symbol (%) and understand that per cent relates to	• I can recognise the per cent symbol (%) and understand that per cent relates to "number of parts per hundred"		
	"number of parts per hundred", and write percentages as a fraction with	• I can write percentages as a fraction with denominator hundred, and as a decimal fraction		
	denominator hundred, and as a decimal fraction			
	• to solve problems which require knowing percentage and decimal equivalents of	• I can solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$		
	$\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those with a denominator of a multiple of 10 or 25.	• I can solve problems with a denominator of a multiple of 10 or 25.		
Measures				
	millilitre)	• I can use place value and relationships to convert between units of measure eg. 5m=500cm, 7m=7000mm, 1.2L=1200ml,		
	Triming C)	%m=0.25m=25cm, 7m=0.007km etc.		
	• to understand and use equivalences between metric and common imperial units			
	• to understand and use equivalences between metric and common imperial units	• I know equivalences between metric and imperial units of length. Eg. cm and metres with inches and feet; and between		
	• to understand and use equivalences between metric and common imperial units such as inches, pounds and pints	• I know equivalences between metric and imperial units of length. Eg. cm and metres with inches and feet; and between km and miles.		
	·	 I know equivalences between metric and imperial units of length. Eg. cm and metres with inches and feet; and between km and miles. I know equivalences between metric and imperial units of mass. Eg. between pounds (lbs) and Kg. 		
	such as inches, pounds and pints	 I know equivalences between metric and imperial units of length. Eg. cm and metres with inches and feet; and between km and miles. I know equivalences between metric and imperial units of mass. Eg. between pounds (lbs) and Kg. I know equivalences between metric and imperial units of volume and capacity. Eg. pints with litres and cm³. 		
	such as inches, pounds and pints to measure and calculate the perimeter of composite rectilinear shapes in	 I know equivalences between metric and imperial units of length. Eg. cm and metres with inches and feet; and between km and miles. I know equivalences between metric and imperial units of mass. Eg. between pounds (lbs) and Kg. I know equivalences between metric and imperial units of volume and capacity. Eg. pints with litres and cm³. I know that the perimeter of rectangles is 2I+2w. 		
	such as inches, pounds and pints	 I know equivalences between metric and imperial units of length. Eg. cm and metres with inches and feet; and between km and miles. I know equivalences between metric and imperial units of mass. Eg. between pounds (lbs) and Kg. I know equivalences between metric and imperial units of volume and capacity. Eg. pints with litres and cm³. I know that the perimeter of rectangles is 2l+2w. I can measure lengths in cm and m to work out perimeters of shapes including squares, rectangles, T and L shapes etc.). 		
	such as inches, pounds and pints to measure and calculate the perimeter of composite rectilinear shapes in	 I know equivalences between metric and imperial units of length. Eg. cm and metres with inches and feet; and between km and miles. I know equivalences between metric and imperial units of mass. Eg. between pounds (lbs) and Kg. I know equivalences between metric and imperial units of volume and capacity. Eg. pints with litres and cm³. I know that the perimeter of rectangles is 2l+2w. I can measure lengths in cm and m to work out perimeters of shapes including squares, rectangles, T and L shapes etc.). I can calculate the perimeter in cm and m of shapes with given lengths including squares, rectangles, T and L shapes etc., 		
	such as inches, pounds and pints to measure and calculate the perimeter of composite rectilinear shapes in	 I know equivalences between metric and imperial units of length. Eg. cm and metres with inches and feet; and between km and miles. I know equivalences between metric and imperial units of mass. Eg. between pounds (lbs) and Kg. I know equivalences between metric and imperial units of volume and capacity. Eg. pints with litres and cm³. I know that the perimeter of rectangles is 2l+2w. I can measure lengths in cm and m to work out perimeters of shapes including squares, rectangles, T and L shapes etc.). I can calculate the perimeter in cm and m of shapes with given lengths including squares, rectangles, T and L shapes etc., including those with some unlabelled sides. 		
	such as inches, pounds and pints to measure and calculate the perimeter of composite rectilinear shapes in	 I know equivalences between metric and imperial units of length. Eg. cm and metres with inches and feet; and between km and miles. I know equivalences between metric and imperial units of mass. Eg. between pounds (lbs) and Kg. I know equivalences between metric and imperial units of volume and capacity. Eg. pints with litres and cm³. I know that the perimeter of rectangles is 2l+2w. I can measure lengths in cm and m to work out perimeters of shapes including squares, rectangles, T and L shapes etc.). I can calculate the perimeter in cm and m of shapes with given lengths including squares, rectangles, T and L shapes etc., including those with some unlabelled sides. I can find the unlabelled length of a rectangle, given its area and the length of one side. 		
	such as inches, pounds and pints to measure and calculate the perimeter of composite rectilinear shapes in	 I know equivalences between metric and imperial units of length. Eg. cm and metres with inches and feet; and between km and miles. I know equivalences between metric and imperial units of mass. Eg. between pounds (lbs) and Kg. I know equivalences between metric and imperial units of volume and capacity. Eg. pints with litres and cm³. I know that the perimeter of rectangles is 2l+2w. I can measure lengths in cm and m to work out perimeters of shapes including squares, rectangles, T and L shapes etc.). I can calculate the perimeter in cm and m of shapes with given lengths including squares, rectangles, T and L shapes etc., including those with some unlabelled sides. I can find the unlabelled length of a rectangle, given its area and the length of one side. I can find the unlabelled length of a rectangle, given its perimeter and the length of one side. 		
	such as inches, pounds and pints to measure and calculate the perimeter of composite rectilinear shapes in	 I know equivalences between metric and imperial units of length. Eg. cm and metres with inches and feet; and between km and miles. I know equivalences between metric and imperial units of mass. Eg. between pounds (lbs) and Kg. I know equivalences between metric and imperial units of volume and capacity. Eg. pints with litres and cm³. I know that the perimeter of rectangles is 2l+2w. I can measure lengths in cm and m to work out perimeters of shapes including squares, rectangles, T and L shapes etc.). I can calculate the perimeter in cm and m of shapes with given lengths including squares, rectangles, T and L shapes etc., including those with some unlabelled sides. I can find the unlabelled length of a rectangle, given its area and the length of one side. I can find the unlabelled length of a rectangle, using the algebraic formula for perimeter (eg. 4 + 2w = 20). 		
	• to measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	 I know equivalences between metric and imperial units of length. Eg. cm and metres with inches and feet; and between km and miles. I know equivalences between metric and imperial units of mass. Eg. between pounds (lbs) and Kg. I know equivalences between metric and imperial units of volume and capacity. Eg. pints with litres and cm³. I know that the perimeter of rectangles is 2l+2w. I can measure lengths in cm and m to work out perimeters of shapes including squares, rectangles, T and L shapes etc.). I can calculate the perimeter in cm and m of shapes with given lengths including squares, rectangles, T and L shapes etc., including those with some unlabelled sides. I can find the unlabelled length of a rectangle, given its area and the length of one side. I can find the unlabelled length of a rectangle, using the algebraic formula for perimeter (eg. 4 + 2w = 20). I can calculate the perimeter of a rectangle (including squares), given its area and the length of one side. 		
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	• to measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres • to calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes	 I know equivalences between metric and imperial units of length. Eg. cm and metres with inches and feet; and between km and miles. I know equivalences between metric and imperial units of mass. Eg. between pounds (lbs) and Kg. I know equivalences between metric and imperial units of volume and capacity. Eg. pints with litres and cm³. I know that the perimeter of rectangles is 2I+2w. I can measure lengths in cm and m to work out perimeters of shapes including squares, rectangles, T and L shapes etc.). I can calculate the perimeter in cm and m of shapes with given lengths including squares, rectangles, T and L shapes etc., including those with some unlabelled sides. I can find the unlabelled length of a rectangle, given its area and the length of one side. I can find the unlabelled length of a rectangle, given its perimeter and the length of one side. I can calculate the perimeter of a rectangle (including squares), given its area and the length of one side. I know that the area of a rectangle is length x width. I know area is measured using standard squares (eg. cm², m²). I can calculate the area of a rectangle given the length and width. I can compare by estimation the area of different rectangles (including squares). I can estimate the area of irregular shapes. 		
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	• to measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres • to calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes • to estimate volume (e.g. using 1 cm3 blocks to build cubes and cuboids) and capacity (e.g. using water) • to solve problems involving converting between units of time	 I know equivalences between metric and imperial units of length. Eg. cm and metres with inches and feet; and between km and miles. I know equivalences between metric and imperial units of mass. Eg. between pounds (lbs) and Kg. I know equivalences between metric and imperial units of volume and capacity. Eg. pints with litres and cm³. I know that the perimeter of rectangles is 2l+2w. I can measure lengths in cm and m to work out perimeters of shapes including squares, rectangles, T and L shapes etc.). I can calculate the perimeter in cm and m of shapes with given lengths including squares, rectangles, T and L shapes etc., including those with some unlabelled sides. I can find the unlabelled length of a rectangle, given its area and the length of one side. I can find the unlabelled length of a rectangle, given its perimeter and the length of one side. I can calculate the perimeter of a rectangle, given its perimeter and the length of one side. I can calculate the area of a rectangle (including squares), given its area and the length of one side. I know that the area of a rectangle is length x width. I know area is measured using standard squares (eg. cm², m²). I can calculate the area of a rectangle given the length and width. I can can calculate the area of irregular shapes. I can estimate the area of irregular shapes. I understand the meaning of volume/capacity. I can estimate the volume/capacity of a container using a 'standard' to compare against (eg. a 2L bottle). I can convert between different measures of time. I can convert between different measures of time. I can use all four operations to solve single and multi-step problems involving time. 		
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• to identify 3-D shapes, including cubes and cuboids, from 2-D representations	• I can identify 3-D shapes from 2-D representations				
* to know angles are measured in degrees; estimate and compare acute, obtuse and reflex angles * can destimate acute angles * can estimate reflex angles * can estimate reflex angles * can compare acute angles * can compare delta angles * can destimate ordure angles * can compare acute angles * can compare acute angles * can compare obtus angles * can compare obtus angles * can compare obtus angles * can desting when a spoint and one whole turn (total 360") * can desting when a spoint and one whole turn (total 360") * can desting when a spoint and one whole turn (total 360") * can desting when a spoint and one whole turn (total 360") * can desting when a spoint and one whole turn (total 360") * can desting when a spoint and one whole turn (total 360") * can desting when a spoint and one whole turn (total 360") * can desting when a spoint and one whole turn (total 360") * can desting when a straight line * can desting when a straight line * can deduce related facts * can find missing angles * can make conjectures about the angles formed between sides and diagonals * can find missing angles using known facts * can find missing angles using and irregular and irregular shapes * can destribe the position of a shape following a reflection or translation * can describe t					
Lan use all floar operations and scaling to solve multi-step problems using decimal notation for capacity/volume. Lan use all floar operations and scaling to solve multi-step problems using decimal notation for capacity/volume. Lan identify 3-D shapes, including cubes and cuboids, from 2-D representations					
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	Can use all four operations and scaling to solve multi-step problems using decimal notation for capacity/volume.				
	• I can compare reflex angles				
draw given angles, and measure them in degrees (°)	• I can draw given angles				
	I can use all four operations and scaling to solve multi-step problems using decimal notation for capacity/solume. I can use all four operations and scaling to solve multi-step problems using decimal notation for money. I can use flat four operations and scaling to solve multi-step problems using decimal notation for money. I can identify 3-D shapes from 2-D representations I can estimate obtuse angles I can estimate obtuse angles I can estimate obtuse angles I can compare acute angles I can compare reflex angles I can identify angles at a point on a straight line I can identify angles of a point on a straight line I can identify angles of a point on a straight line I can identify angles of a point on a straight line I can identify angles of a point on a straight line I can identify angles of a poi				
• to identify:	• I can identify angles at a point and one whole turn (total 360°)				
	• I can identify angles at a point on a straight line				
- angles at a point on a straight line and ½ a turn (total 180°					
- other multiples of 90°	• I can identify other multiples of 90°				
	• •				
	I can distinguish between regular and irregular polygons				
	I can measure accurately with a protractor				
use the properties of rectangles to deduce related facts, and find missing lengths					
<u> </u>					
	• I can identify the position of a shape following a reflection or translation				
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	·				
-					
• to solve comparison, sum and difference problems using information presented					
•					
	I can complete tables including timetables				
, , , , , , , , , , , , , , , , , , , ,					
	 to know angles are measured in degrees; estimate and compare acute, obtuse and reflex angles draw given angles, and measure them in degrees (°) to identify: angles at a point and one whole turn (total 360°) angles at a point on a straight line and ½ a turn (total 180° other multiples of 90° use the properties of rectangles to deduce related facts and find missing lengths and angles to distinguish between regular and irregular polygons based on reasoning about equal sides and angles. to 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. to solve comparison, sum and difference problems using information presented in a line graph 	I can use all four operations and scaling to solve multi-step problems using decimal notation for capacity/volume. I can use all four operations and scaling to solve multi-step problems using decimal notation for money. I can identify 3-D shapes, including cubes and cuboids, from 2-D representations I can cell from coperations and scaling to solve multi-step problems using decimal notation for money. 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I can use all flor operations and scaling to solve multi-step problems using decimal notation for money. I can identify 3-0 shapes, including cubes and cuboids, from 2-D representations and reflex angles are measured in degrees, estimate and compare acute, obtuse and reflex angles and reflex angles and reflex angles and reflex angles are measured in degrees, estimate and compare acute, obtuse angles and reflex angles are compare acutes and search angles are compared acute angles. 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I can identify angle at a spoint on a straight line and making angles about the angles beautify angle and angles and angles. I can identify angle at a spoint and analysis of right angles and angles and angles. I can identify angle at a spoint and irregular polygons based on reasoning about caputal size and angles and angles. I can identify angle and angles and angles and angles and angles and angles and angles



	Auti	ımn	Spi	ring	Summ	er	
Term:	1	2	3	4	5		6
Year 6	Learning (objective		Success Criteria		C	Coverage
Number and place value	• to read, write, order and compare num value of each digit	bers up to 10 000 000 and determine the	 I can read numbers to at least 10 000 I can determine the value of each dig I can write numbers to at least 10 000 I can order numbers to at least 10 000 I can compare (< >) numbers to at least 	it for numbers to at least 10 000 000 0 000 0 000 ost 10 000 000			
	• to round any whole number to a requir	ed degree of accuracy	 I can round any number up to 10 000 I can round any number up to 10 000 I can round any number up to 10 000 I can round any number up to 10 000 I can round any number up to 10 000 	000 to the nearest 100 000 to the nearest 1000 000 to the nearest 10 000 000 to the nearest 100 000			
	• to use negative numbers in context, an	d calculate intervals across zero	 I can interpret negative numbers in control I can calculate intervals across zero (unimode) 	ontext (including different number lines and Ising a number line)	d scales)		
	• to solve number problems and practical	l problems that involve all of the above.	 I can solve number problems and pra I can solve number problems and pra I can solve number problems and pra 	ctical problems that involve ordering number ctical problems that involve counting forwa ctical problems that involve counting backwa ctical problems that involve negative number ctical problems that involve rounding number	rds vards ers		
Addition and subtraction,	to multiply multi-digit numbers up to 4 the formal written method of long	digits by a two-digit whole number using multiplication		to 4 digits by a 2-digit number using a form			
multiplication and division	• to divide numbers up to 4 digits by a tw written method of long division, a			y a two-digit whole number using the forma number remainders, fractions, or by roundir gree of accuracy (NSG)	l de la companya de		
	to perform mental calculations, including numbers	ng with mixed operations and large		cluding with mixed operations and large nungly larger numbers and more complex calcu	l de la companya de		
	• to identify common factors, common n	nultiples and prime numbers	 I can identify common factors I can relate common factors to findin I can identify common multiples I can identify prime numbers 				
	• to use their knowledge of the order of a involving the four operations	operations to carry out calculations	I know to work out the operation insi I can calculate number sentences whi I can manipulate number sentences be	ch include brackets			
	 to solve addition and subtraction multi- which operations and methods to 	· ·		to use in addition and subtraction multi-ste to use in addition and subtraction multi-ste ethods to use and why			
	• to solve problems involving addition, su	ubtraction, multiplication and division	 I can use the formal written method of I can solve problems involving additions. I can use the formal written method of I can solve problems involving subtrated I can use the formal written methods. I can solve problems involving multiperate I can use the formal written methods. I can solve problems involving divisions. 	of columnar addition (NSG) on of columnar subtraction (NSG) ction for short and long multiplication (NSG) lication for short and long division (NSG)			
	• to use estimation to check answers to one of a problem, levels of accuracy.	calculations and determine, in the context	I can use estimation to check answers I can use estimation to determine, in	s to calculations the context of a problem, levels of accuracy			



				-	
	Divide numbers up to 4 digits by a two-digit number using the formal written	• I can divide numbers up to 4 digits by a two-digit number using the formal written method of short division			
	method of short division where appropriate, interpreting remainders	I can, where appropriate, interpret remainders according to the context			
	according to the context				
Fractions	• to use common factors to simplify fractions; use common multiples to express	I can use common factors to simplify fractions			
(including	fractions in the same denomination	• I can use common multiples to express fractions in the same denomination			
decimals and	• to compare and order fractions, including fractions >1	• I can compare and order fractions			
		I can add and subtract fractions with different denominators			
percentages)	• to add and subtract fractions with different denominators and mixed numbers,				
	using the concept of equivalent fractions	I can add and subtract fractions with mixed numbers			
	• to multiply simple pairs of proper fractions, writing the answer in its simplest	• I can multiply simple pairs of proper fractions			
	form (e.g. 1/4 × 1/2 = 1/8)	I can reduce my answer to the simplest form			
	 ◆ to divide proper fractions by whole numbers (e.g. 1/3 ÷ 2 = 1/6). 	I can divide proper fractions by whole numbers			
	• to associate a fraction with division and calculate decimal fraction equivalents	I associate a fraction with division			
	(e.g. 0.375) for a simple fraction (e.g. 1/8)	I can calculate decimal fraction equivalents			
	• to identify the value of each digit to three decimal places and multiply and divide	I can identify the value of each digit to three decimal places			
	numbers by 10, 100 and 1000 where the answers are up to three decimal	• I can multiply and divide numbers by 10 where the answers are up to three decimal places			
	places	• I can multiply and divide numbers by 100 where the answers are up to three decimal places			
		• I can multiply and divide numbers by 1000 where the answers are up to three decimal places			
	• to multiply one-digit numbers with up to two decimal places by whole numbers	I can multiply one-digit numbers with up to two decimal places by whole numbers			
	• to use written division methods in cases where the answer has up to two	• I can use written division methods in cases where the answer has up to two decimal places			
	decimal places	Tean use written division methods in cases where the answer has up to two decimal places			
	• to solve problems which require answers to be rounded to specified degrees of	I can solve problems which require answers to be rounded to specified degrees of accuracy			
	accuracy.	T can solve problems which require answers to be rounded to specified degrees of accuracy			
	to recall and use equivalences between simple fractions, decimals and	I can recall equivalences between simple fractions, decimals and percentages			
	percentages, including in different contexts.	· · · · · · · · · · · · · · · · · · ·			
Ratio and	·	I can use equivalences between simple fractions, decimals and percentages			
	to solve problems involving the relative sizes of two quantities where missing	I can solve problems using integer multiplication and division facts			
proportion	values can be found using integer multiplication and division facts				
	• to solve problems involving the calculation of percentages of whole numbers or	I can solve problems involving the calculation of percentages of whole numbers			
	measures such as 15% of 360 and the use of percentages for comparison	I can solve problems involving the calculation of percentages of measures			
		I can use of percentages for comparison			
	• to solve problems involving similar shapes where the scale factor is known or	• I can solve problems involving similar shapes where the scale factor is known			
	can be found	• I can solve problems involving similar shapes where the scale factor can be found			
	• to solve problems involving unequal sharing and grouping using knowledge of	I can solve problems involving unequal sharing			
	fractions and multiples	I can solve problems involving grouping			
	• to enumerate all possibilities of combinations of two variables	 I can find all the possibilities when using symbols for numbers I don't know yet e.g. using x and y 			
Measures	• to solve problems involving the calculation and conversion of units of measure,	 I can solve multi-step problems involving conversion between units of measure (with numbers up to 3dp). 			
	using decimal notation to three decimal places where appropriate	• I can perform calculations for temperature, involving negative numbers, with the help of a number line.			
	to use, read, write and convert between standard units, converting	• I can use place value and relationships to convert between units of measures, up to 3dp eg. 502.1cm=5.021m,			
	measurements of length, mass, volume and time from a smaller unit of	2mm=0.002m, 250ml=0.25L=¼L, 2547m=2.547km etc.			
	measure to a larger unit, and vice versa, using decimal notation to three	• I understand that speed can be measured eg. in metres-per-second, km-per-hour, miles-per-hour etc., and I can explain			
	decimal places	what it means.			
	to convert between miles and kilometres	• I know that 8km is roughly equivalent to 5 miles, and I can use this to estimate/compare/check.			
	- to convert between miles and knometres	• I can convert between miles and kilometres.			
		• I understand line-graphs and map scales showing the equivalence between miles and km.			
	• to recognize that shapes with the same areas can have different nationators and				
	• to recognise that shapes with the same areas can have different perimeters and	I can find polygons that have the same perimeter, but different rectangles. I can find polygons that have the same perimeter, but different rectangles.			
	vice versa	I can find polygons that have the same area, but a different perimeter.			
	• to recognize when it is possible to use formulae for area and volume of shapes	• I can apply known area formulae when challenged with calculating the area/volume of more complex shapes (eg. by			
		dissecting a complex shape into smaller shapes).			
	• to calculate the area of parallelograms and triangles	• I know the area of a parallelogram (base x height).			
		• I know that the area of a triangle is ½(base x height).			
		• I can calculate the area of parallelograms and triangles, with a given base and height measurement, using formulae.			
	• to calculate, estimate and compare volume of cubes and cuboids using standard	I know that volume can be measured using cubes.			
	units, including centimetre cubed (cm³) and cubic metres (m³) and	● I know the formula for volume of cubes and cuboids (length x width x height).			



	extending to other units, such as mm³ and km³.	 I can calculate the volume of a cube/cuboid (in cm³ and m³). 		
Geometry:	• to draw 2-D shapes given dimensions and angles	• I can draw 2-D shapes using given dimensions		
properties of		• I can draw 2-D shapes using given angles		
hape		I can describe the properties of shapes		
	• to recognise, describe and build simple 3-D shapes, including making nets	• I can recognise simple 3-D shapes		
		• I can describe simple 3-D shapes		
	I can recognise simple 3-D shapes I can describe simple as of 3-D shapes I can recognise simple nets of 3-D shapes I can describe simple nets of 3-D shapes I can describe simple nets of 3-D shapes I can describe simple nets of 3-D shapes I can dustribe simple nets of 3-D shapes I can build simple nets of 3-D shapes I can use measuring tools I can use measuring tools I can use measuring tools I can use conventional markings and labels for lines and angles I can use conventional markings and labels for lines and angles I can find unknown angles in any triangles are derived I can describe how unknown angles in any triangles are derived I can describe how unknown angles in any triangles are derived I can describe how unknown angles in any triangles are derived I can describe how unknown angles in any triangles are derived I can describe how unknown angles algebraically — as (I can find unknown angles angles algebraically — as (I can find unknown angles and an angles angles angles angles angles and an angles angles angles angles angles and an angles angles and angles angles angles angles and an angles angles angles angles and an angles angles angles and an angles angles angles and an angles angles angles and angles angles an			
	• to draw 2-D shapes given dimensions and angles • can draw 2-D shapes using given angles			
	* to draw 2-D shapes given dimensions and angles * to draw 2-D shapes given dimensions and angles * to draw 2-D shapes given dimensions and angles * to recognice, describe and build simple 3-D shapes, including mailing nets * to recognice, describe and build simple 3-D shapes, including mailing nets * to recognice, describe and build simple 3-D shapes, including mailing nets * to recognice, describe and build simple 3-D shapes, including mailing nets * to recognice, describe and build simple 3-D shapes, including mailing nets * to an accordinate simple 3-D shapes * to an accordinate simple 3-D shapes * to an accordinate simple and calcularly generate charges based on their properties and sizes and find unknown angles in any trianges * to an incurrence and classify generate charges based on their properties and sizes and find unknown angles in any trianges * to an incurrence and classify generate charges based on their properties and sizes and find unknown angles in any trianges * to an incurrence and classify generate charges based on their properties and sizes * to an incurrence and classify generate charges based on their properties and sizes * to an incurrence and accordinate plants and their properties and sizes * to a find unknown angles in any strainges * to an incurrence and accordinate plants and sizes * to a find unknown angles in any strainges * to a find unknown angles in any strainges * to a find unknown angles in any strainges * to a find unknown angles in any strainges * to a find unknown angles in any strainges * to a find unknown angles in any strainges * to a find unknown angles in any strainges * to a find unknown angles in any strainges * to a find unknown angles in any strainges * to a find unknown angles in any strainges * to a find unknown angles in any strainges * to a find unknown angles in any strainges and strainges * to a find unknown angles in any strainges * to a find unknown angles in any strainges * to a find unknown angles in any strainges * to			
		 I can describe how unknown angles in any triangles are derived 		
		• I can express unknown measurements algebraically – d= 2xr		
	•			
	circumference and know that the diameter is twice the radius			
	vertically opposite, and find missing angles.			
Geometry:	<u> </u>			
•		·		
direction	the axes.	·		
		·		
		· · · · · · · · · · · · · · · · · · ·		
Statistics	· · · · · · · · · · · · · · · · · · ·	·		
	problems	·		
	• to calculate and interpret the mean as an average.			
Algebra	·	•		
	to express missing number problems algebraically	I can express missing number problems algebraically		
	• to find pairs of numbers that satisfy an equation with two unknowns	• I can find pairs of numbers that satisfy an equation with two unknowns.		



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• to enumerate possibilities of combinations of two variables.	I can establish the number of possibilities derived from combinations of two variables.	
	• I can use symbols and letters to represent missing numbers in a number sentence.	
	I can use symbols and letters to represent missing numbers in the context of length	
	• I can use symbols and letters to represent missing numbers in the context of co-ordinates.	
	• I can use symbols and letters to represent missing numbers in the context of angles.	
	• I can use formulae in science.	
	• I can use equivalent expressions	
	• I can generalise number patterns (for example, find the nth value)	
	• I can use algebra to solve numbers puzzles	



These are the strategies that need to be taught for problem solving and they are generic to each year group, differentiated by the context of the mathematics and the age/stage of the pupils.

Assessing usin	g and applying mathematics, reasoning	Learning outcome: "I can"
Information	Locate/collect relevant information	I can locate relevant information
		I can collect relevant information
		I can say why it is relevant
	Sort/classify/sequence/compare/analyse	I can sort information
		I can sequence information (numbers shapes and objects)
		I can compare information
		I can analyse information
Reasoning	Give reasons for opinions	I can give reasons for my answers or methods
		I can explain why I am collecting information and what my information shows
	Make deductions	I can deduce information from a problem
	Use precise language	I can use precise mathematical language and key vocabulary in my explanations
	Make judgements	I can make judgements in problems
		I can decide which operation and method to use and choose a way of recording and organising information
Enquiry	Ask questions	I can ask questions relevant to the problem
	Pose problems	I can pose problems for my peers to solve
	Use a range of strategies/different approaches	I can use a range of strategies
		I can use different approaches
	Apply in a different context	I can apply strategies that I know to other contexts
	Plan	I can plan a way to solve a problem
	Predict	I can predict and estimate the answer to the number position
		I can predict the solution to a logical problem
	Test systematically	I can test my own ideas
	record systematically	I can clearly record my method and my answers
		I can use mathematical language when investigating a problem
		I can use mathematical symbols, language or diagrams to interpret results
Evaluative	Evaluate \ Check results	I can check my results with a peer
		I can check my results independently
		I can evaluate my results with a peer
		I can evaluate my results independently
	Judge/make general statements/	I can make judgements about a problem
		I can make general statements about a problem
	recognise patterns	I can recognise patterns in a problem
	draw own conclusions	I can draw own conclusions
	Evaluate criteria for judging/give clear explanations	I can give a clear explanation of my answer or my method
	Present methods, solutions and conclusions	I can present methods
		I can present solutions
		I can present conclusions
	Interpret methods, solutions and conclusions	I can interpret methods
		I can interpret solutions
		I can interpret conclusions
Strategies	Look for important words/phrases	I can identify important words and phrases
	Make a list, table or chart	I can make a list
		I can make a table
		I can make a chart
	Look for a pattern or sequence	I can look for a pattern in a problem
		I can look for a sequence in a problem
	See mathematical connections	I can see mathematical connections
		I can make mathematical connections
		I can use mathematical connections
		I can apply mathematical connections
	Make and test a prediction	I can make a prediction



	I can test a prediction
Work backwards	I can work backwards through a problem to check my results
Use trial and improvement	I can use trial and improvement to arrive at a sensible conclusion
	All of these can be further differentiated by:
	I can do this with an adult
	I can do this with a friend or peer
	I can do this by myself

Logic problems and puzzles		
When solving logic problems and puzzles, the strategies children need to be able to draw on include:		
• Identifying carefully what is known and what needs to be found and thinking about how they might relate;	I can say what I know and what needs to be found out	
	• I can tell you what connections I can see	
• Looking through the information that is given for any relationships or patterns that can be developed and used;	• I can tell you what relationships I can see	
	• I can tell what patterns I can see	
	• I can tell you how I will use the pattern to solve my puzzle	
• Developing a line of thinking that involves making inferences and deductions, for example 'if I know that then this could	• I can use information that I know to find things I don't know	
or must be true', and testing these out against the given information;	• I can test my answers to see if I am right	
	I can use the information I have to test my theory	
• Taking one piece of the information and changing it, while keeping everything else fixed, to see what effect it has on the	• I can change just one piece of information and see what happens to the problem	
problem;		
• Choosing a way of recording and organising the given information that helps to see how the problem is structured;	I can choose a way of recording the information	
	• I can organise my information so that it helps me solve the puzzle	
• Checking answers along the way to see if they satisfy the conditions or rules.	• I can remember to check all the time that I am following the rules	

Finding rules and describing patterns	
When solving 'Patterns and relationships' problems, the strategies children need to be able to draw on include:	
oral rehearsal of the pattern they can see to refine their thoughts	I can practise saying the patter to help me sort out my thinking
• having a system for recording the pattern e.g. using pictures, tables or lists of calculations	• I can make a list to show my pattern
	• I can use pictures to show my patterns
	• I can use calculations to show my patterns
• organising the recording of patterns, e.g. making an ordered list or table and adapting it as more information is collected	I can make an ordered list to help me predict what comes next
in order to predict what comes next	• I can make a table to help me predict what comes next
	• I can change my lists and tables when I need to
• eventually, describing same general term using mathematical notation even if they see the sequence differently.	I can use mathematical language to describe my patterns
	I can explain my findings using mathematical language

Finding all possibilities	
When solving 'Finding all possibilities' problems, the strategies children need to be able to draw on include:	
• having a system for testing possibilities, e.g. start with a small number and build up to bigger numbers	I start with small numbers to help me be systematic
• organising the recording of possibilities, e.g. make an ordered list or table and adapt it as more information is collected	I can make an ordered list to help me predict what comes next
	I can make a table to help me predict what comes next
	• I can change my lists and tables when I need to



• using a method of tracking what has been included and what has not to isolate relevant information	I can sort through the information to see what is important I can tell you what other information I need
having a way of checking for any repeats and deciding when all possibilities have been found.	 I can choose a way of recording all the possibilities so that I can check for repeats I can decide when I think all the possibilities have been found and explain why.