AOUR SCHOOL SCHOOL SCHO		Maths	5		
Nursery	Develop Matters PoS	Knowledge	Skills	Concepts	Vocabulary
		Autumn Tei			
	Number: Fast recognition of up to 3 objects, without having to count them individually ('subitising').	Numbers represent groups of objects.		Number	1,2,3, 4, 5, 6, 7, 8, 9, 10
	Number: Recite numbers past 5.	Number names	Reciting numbers	Counting	
Who am I?		Autumn Ter	rm 2		
	Number: Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle').	Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle').	Saying the numbers in order; 1:1 correspondence.	Count, number, cardinal principle.	Number names, more than, fewer than, the same, how many
Who is in my community?	Number: Say one number for each item in order: 1,2,3,4,5.	Know that it is important to only say one number for each item, and to only point to one item for each number.	Saying the numbers in order; 1:1 correspondence.	Count, number, cardinal principle.	
	Numerical Patterns: Compare quantities using language: 'more than', 'fewer than'.	Know that quantities can be compared.	Comparing, saying which has more/fewer than.	more, fewer, the same	-
					-
		Spring Ter	m 1		

How do we get to the South Pole?	Number: Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5. Number: Show 'finger numbers' up to 5. Number Patterns: Understand position through words alone – for example, "The bag is under the table," – with no pointing. NP: Describe a familiar route NP: Discuss routes and locations, using words like 'in front of' and 'behind'. NP: Discuss routes and locations, using words like 'in front of' and 'behind'.	number; A group has a particular number of items in it. I can use my fingers to show a number. I can use words to convey	Counting, matching numbers Counting fingers, showing number on fingers. Verbalising where something is using the key vocab. Verbalising where something is using the key vocab.	Count, number, cardinal principle. number, represent position, under, on, over, next to, between, behind position, under, on, over, next to, between, behind, forwards, backwards.	Number names, how many, under, on, next to, between, behind, over, forwards, backwards
		Spring Terr	m 2		
		A numeral represents a	Counting, matching numbers	Count, number, cardinal principle.	Number names, triangle,
	Number: Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5.	number; A group has a particular number of items in it.			square, oval, rectangle, circle, hexagon, prism, pyramid, sphere, cube, cuboid,
	Number: Show 'finger numbers' up to 5.	I can use my fingers to show a number.	Counting fingers, showing number on fingers.	number, represent	cylinder, flat, round, straight, corner, edge, face, side, flat,
What can we grow?	Numerical Patterns: Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'.	We can name shapes according to their properties. We can count their faces, sides and corners.	Recognising 2D and 3D shapes, counting their faces, sides and corners. Finding shapes in the environment.	shape, 2D, 3D	big, small
	for a roof etc.	We can use shapes to create things, and can select them according to their properties and suitability.	Creating using shapes	shape, 2D, 3D, funtionality	
	NP: Combine shapes to make new ones – an arch, a bigger triangle etc	We can make new shapes by	Manipulating, visualising and creating using shapes.	make, create, 2D shape, 3D	
	ones – an arch, a bigger triangle etc	combining shapes.	creating using snapes.	shape, face, side, corner	-
		0]
		Summer Te	rm 1		

	Number: Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5. Number: Experiment with their own symbols and marks as well as numerals.	wide range of creative ways.	Counting, matching numbers counting, recording, mark- making, imagining, representing	Count, number, cardinal principle. Count, number, record, represent	add, take away, makes, equals, and, more, less, number names, big, bigger, biggest, small, smaller, smallest, long, sort, heavy, light
What is under the	Number: Solve real world mathematical problems with numbers up to 5.	Number problems can be found in narratives and real life situations and we can find our own ways to solve them.	creative problem solving; finding own way to solve problems.	count, number, more, less	
sea?	Numerical Patterns: Make comparisons between objects relating to size, length, weight and capacity.	We can compare objects and say which is bigger /smaller /longer /shorter /heavier /lighter /holds more /holds less.	Comparing		
		Summer Te	rm 2		
	Number: Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5.	A numeral represents a number; A group has a particular number of items in it.	Counting, matching numbers	Count, number, cardinal principle.	number names, and, add, plus, take away, minus, equals, makes, more, fewer, pattern, pointy, spotty, stripy,
	Number: Experiment with their own symbols and marks as well as numerals.	wide range of creative ways.	counting, recording, mark- making, imagining, representing	record, represent	first, next, then, at the end, finally
	Number: Solve real world mathematical problems with numbers up to 5.	Number problems can be found in narratives and real life situations and we can find our own ways to solve them.	creative problem solving; finding own way to solve problems.	number problem	
Where will adventure take us?	Number Patterns: Talk about and identify the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper. Use informal language like 'pointy', 'spotty', 'blobs' etc.	There are patterns all around us and we can spot them in the environment.	Noticing, identifying and talking about patterns.	pattern	
	NP: Extend and create ABAB patterns – stick, leaf, stick, leaf. NP:Notice and correct an error in a repeating pattern.	We can create our own patterns. We can find what is wrong in a repeating pattern.	creating patterns. Identifying errors in repeating patterns.	repeating pattern repeating pattern, error	

NP: Begin to describe a sequevents, real or fictional, using such as 'first', 'then'	ence of we can describe the position	Correctly identifying the order of events and using the correct vocabulary to describe that order.	

	Development				
Reception	Matters PoS	Knowledge	Skills	Concepts	Vocabulary
		Autumn Tei	rm 1		
	Number and Numerical Patterns Working towards ELG: Number ELG Children at the expected level of development will: -Have a deep understanding of number to 10, including the composition of each number;	knowing that the last number represents how many - cardinality	use one to one correspondence to count a small group of objects	Cardinality Ordinality Subitising	subitise, total, altogether, how many? count,
	-Subitise (recognise quantities without counting) up to 5; -Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.	knowing number names and numerals knowing the day has an order/sequence developing vocab in relation to time	touch, move and count using numbers names in correct order		
What makes me happy and healthy?	Numerical Patterns ELG Children at the expected level of development will: 12		match quantity to correct numeral		
	-Verbally count beyond 20, recognising the pattern of the counting system;		count amounts in different arrangement of objects		
	-Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity;		order and sequence events correctly		
	-Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.		use everyday language related to time		
		Autumn Term			
	Counts objects, actions and sounds	knowing a group of objects can be represented by a numeral	using steps to counting we have already established	Cardinality	chronology, time, subitise, total, groups, altogether, add, take away, length, weight, heavy, light, heaviest, lightest, number.
	Count beyond ten	knowing different groups can have different amounts	establishing how many are in each group	Touch and move and count	

L'ompose and decompose shapes so Iknowing when we combine Icounting on when counting IChronology	
Compose and decompose shapes so knowing when we combine counting on when counting Chronology	
that children understand that shapes groups the amount multiple groups	
Alle are in the user later can have other shapes within it increases/changes know togetherknowing colour and	
Where in the world can have other shapes within it numerals represent amounts shape of the coins	
do animals live? continue, copy and create repeating knowing money has value and use numerals accurately to	
it can be used in exchange for represent amount	
goods	
Compare length, weight and capacity recognise and read numerals	
matching correct numeral to	
amount	
Spring Term 1	
	value, total, 1p,
	pound, pence,
objects.	
	uu,
Value of money	
Understanding meaning of	
vocabulary	
Selects the correct numeral to Know the meaning of the Knowing what one more/ one	
represent 1 to 5, then 1 to 10 objects. terms one more/one less. less of a given number is.	
Begins to identify own mathematical Know that numbers are Recognising the formation of	
problems based on own interests and represented with a numeral numbers to select the correct	
fascinations. and hold a real value/amount. one and using counting skills	
to count the matching number.	
Orders two or three items by length or Knowing that two groups can To demonstrate a value with	
height. be joined together to create a lits numeral.	
What makes a good	
Urders two items by weight or capacity. Knowing that all numbers are "Practically and verbally"	
toy? made up of different numbers. counting two groups then	
finding the answer. Using	
counting skills.	
Knowing money has value	
and it can be used in	
exchange for goods	
Knowing that different	
numbers hold different values	
and can be compared.	
Know the terms length, weight	
and capacity and understand	
Ithat those are used to	
that these are used to	
measure different objects.	

		Know that objects can be			
		measured in different ways.			
		Spring Term 2	2		
	Compare length, weight and capacity.	Understanding the meaning of the concepts. How to measure and what measure means.		Weight, length and capacity.	Compare, add, total, plus, number, weight, length, height. Positional language: i front, next to, in between, on top, underneath, behind, left
		Know what repeating means.	Using knowledge of measure to compare in different contexts.	Comparison.	and right.
	Continue, copy and create repeating patterns.	Know what a repeating pattern is and that it won't always look the same.		Addition.	
What happens on the farm?		Understand the pattern of numbers beyond 10 and how these numbers are represented by numerals.	Be able to count beyond ten. Recognise numerals from 10 to 20.	Touch and move and count.	_
	Count beyond ten.	Understand that teen numbers are written to represent 1 lot of ten and an amount of ones e.g. 14 is 1 lot of 10 and 4 ones.		Understanding meaning of vocabulary. Chronology.	
				Spatial reasoning	
		Summer Term	1		
	Count beyond ten.	knowing that the last number represents how many - cardinality	Use one to one correspondence to count a small group of objects touch, move and count	Cardinality	number names, subitise, sequence, days of the week months of the year, count, one more, one less, total, add, take away, less than, more than, number bonds,
	Compare numbers	knowing number names and numerals	using numbers names in correct order	Ordinality	part part whole.
	Explore the composition of numbers to 1	knowing the day has an order/sequence developing vocab in relation to time	match quantity to correct numeral	Subitising	
How can I be a	Automatically recall number bonds for		count amounts in different		
superhero?	numbers 0–5 and some to 10.		arrangement of objects		_
	ELG:		order and sequence events correctly		
	Have a deep understanding of number to 10, including the composition of each number.		use everyday language related to time		

	Verbally count beyond 20, recognising the pattern of the counting system.	Summer Term	2		
	Count beyond 10.	Understanding the meaning of the concepts.	Vocab of comparison.	Weight, length and capacity.	more than, less than, greater than, ten, compare, add, take away, double, halving, share
What goes up, up and away?	Compare numbers.	measure means.	Using knowledge of measure to compare in different contexts.	Comparison.	
	Understand the 'one more than/one less than' relationship between consecutive numbers.		Use their knowledge of what repeating means to create different patterns in a range of contexts.	Addition.	
	Automatically recall number bonds to 0 to 5 and some to 10.	Know what a repeating pattern is and that it won't always look the same.	Be able to count beyond ten.	Touch and move and count	
			Recognise numerals from 10 to 20.	Understanding meaning of vocabulary.	
		Understand that teen numbers are written to represent 1 lot of ten and an amount of ones e.g. 14 is 1 lot of 10 and 4 ones.		Chronology	

Year 1	National Curriculum PoS	Knowledge	Skills	Concepts	Vocabulary	
		Autumn Tei	rm 1			
	Counting a variety of objects and manipulatives to 10 ensuring 1:1 correspondence. Verbally counting back from 10 to 0.	Number to 10. Number sense to 10.	Able to count ojects up to 10.	Number sense	Part part wholeTens frameNum	
	Ordering numbers to 10.	Understand that numbers have different value and follow on from one another.	Can show how to order numbers to 10.	Place value		
	Using a variety of objects to represent numbers to 10. Using tens frames to represent numbers.		Can represent different numbers using objects and tens frames.			
What do I know about the UK and where I live in	Comparing numbers and understanding the concept of 1 more, 1 less and representing this with concrete objects.		Can compare numbers and show 1 more and 1 less of a number.			
Didsbury?	Knowing number bonds to 10	Knowing number bonds to 10	Can say the number bond to 10 for any number 0 -10. Can compare different			
	Comparing groups of different amounts and using mathematical language such as less than, more than, greater than.		amounts and use mathematical language such as less than, more than, greater than			
	Odd and even numbers	Numbers are odd or even.	Can understand what odd and even mean and show which numbers are odd and even.			
Autumn Term 2						
	Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs.	Knowing number bonds to 10 Begin to learn number bonds to 20.	Correctly form numbers to 10	Number bonds		

How different was my grandparents' childhood to mine? Represent and use language provide and pictures Know the diversand here represent addition and subtraction addition and subtraction addition and subtraction addition and subtraction and subtraction Addition and subtraction How different was my grandparents' childhood to mine? Read and write numbers in multiple of twos: How the relevant terminology for addition and subtraction and addition and subtraction and subtraction Counting accurately up to and back from 20 Counting in 2s How different was my grandparents' childhood to mine? Represent numbers using objects and pictorial terminology-first second third terminology-first second third in turbips and pictorial terminology-first second third terminology-first second third terminology-first second third in turbips and pictorial terminology first second third terminology first second third						
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Recognise and use language relating to dates, including days of the week. Know the days of the week. Apply and order the days of the week in context Recognise and name common 3 D shapes Identify 3D shapes and learn their properties Compare similarities and differences between 2D shapes and 3D shapes Explore everyday objects and use mathematical language to describe them Explore everyday objects and use mathematical language to describe them						
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days of the week. Recognise and name common 3 D Identify 3D shapes and learn Compare similarities and shapes Identify 3D shapes and learn differences between 2D shapes and 3D shapes Explore everyday objects and use mathematical language to						
Recognise and name common 3 D shapes Identify 3D shapes and learn their properties Compare similarities and differences between 2D shapes and 3D shapes Explore everyday objects and use mathematical language to describe them Explore everyday objects and use mathematical language to						
shapes their properties differences between 2D shapes and 3D shapes Explore everyday objects and use mathematical language to describe them Explore everyday objects and use mathematical language to describe them			Identify 3D shapes and learn	Compare similarities and		
Image: Second state shapes and 3D shapes Image: Second state and 3D shapes Image: Second state Explore everyday objects and use mathematical language to describe them				•		
Image: second		0114000				
Explore everyday objects and use mathematical language to describe them				•		
use mathematical language to describe them						
describe them						
				5 5		
Spring Term 1			l			
Spring Term 1			Conin or Ton			
						AdditionSubtractionFact family
Represent and use number Know number bonds to 20 Be able to use addition facts to Addition and subtraction			Know number bonds to 20	Be able to use addition facts to	Addition and subtraction	
bonds and related subtraction						
facts within 20.		facts within 20.				
Read and write numbers from Know that addition and Be able to compare and ordern Fact families		Read and write numbers from	Know that addition and	Be able to compare and ordern	Fact families	
1 -20 in words, count in subtraction are inverse of		1 -20 in words, count in	subtraction are inverse of			
multiple of twos. each other		multiple of twos.	each other			

Why are humans not like tigers? Animals including humans	Represent numbers using objects and pictorial representations including the number line. Add and subtract one-digit andtwo-digit n	Know the meaning of the words more, less, greater, fewer. Know the relevant terminology for addition and subtraction and understand the concepts of addition and subtraction.	Represent numbers usingobjec		
	Compare, describe and solvepractical pro		Effectively use a number line to		
	Measure and begin to recordthe following	greater number. Know that two digit numbers are split into tens and ones.	Add and subtract one-digitnumb	concrete and pictorial forms. pers to 20	
	Recognise and namecommon 2-D shape		Draw information from visual representations to inform additions and subtraction number stories.	Length, height, measuring.	
	Recognise and namecommon 3-D shape				
		Know that we can identify anob	Use a ruler, measuring tape orn	units of measurements. Properties, classification and group	
			Identify, compare and groupsha		
		Spring Terr	m 2		
		To understand that digits represent tens and ones Know how to use place value to compare two or three numbers To know how to compare numbers using number bonds, 100-squares and number lines to determine how much more/less. Know how to use a number line to complete patterns Know what methods to use to solve one step addition and subtraction word problems.	Count in tens and ones using base ten and write the numbers in a place value chart. Arrange three numbers in order of size and determine which is bigger/smaller. Complete a number pattern using a number line.		More thanLess thanEqual toNu
	Solve one-step problems that involve addition and subtraction, using concrete objects and	Know how to write a number calculation based on word problems.	Use and apply number bonds and visual representations to solve word problems	Comparing numbers.	
How can I make a	pictorial		·		
nuw call i lliane a	representations, and missing number				

about where I am from?	representations and arrays with support.	To know how to apply addition and subtraction to multi-step word problems; to be able to use number bonds to make 10 when adding. To know how to make equal groups and how to arrange them to count them efficiently. Know how to make an array to multiply a number of objects.	Use the concept of more/less to solve word problems Write number calculations based on word problems. Choose the correct operation and use pictorial representations to help solve	Finding out how much more. Making number patterns. Solving addition and subtraction word problems.	
			a word problem To apply knowledge of addition and subtraction to solve problems. Group objects equally and	Multiplication. Making and adding equal	
			count them to multiply. Make equal rows to count even numbers efficiently	groups. Solving multiplication word problems.	
		Summer Te		Division	
		To understand that digits represent tens and ones Know how to use place value to compare two or three numbers	Arrange three numbers in order of size and determine which is bigger/smaller. Complete a number pattern using a number line.		Tens Ones Addition Subtraction Doubling Equal Groups
	2 equal parts of an object, shape or quantity	Know how to use a number line to complete patterns	Choose the correct operation and use pictorial representations to help solve a word problem	Comparing numbers	Multiplication Division Multiples Time
	1 of 4 equal parts of an object, shape or quantity	them to count them efficiently.	Group objects equally and count them to multiply. Make equal rows to count		Hour Second Minute o'clock
		multiply a number of objects.	even numbers efficiently To solve word problems using equal groupings as the basis for multiplication.	word problems	Half past Morning Afternoon Evening Night time
		Know that doubling is the same as saying two groups of the same amount.	Divide equal numbers evenly into groups.		Capacity Volume EmplyFull

Why are some Image and the source of a number Numbers into equal groups using concrete material. To know how many groups will be created from sharing equally. Solve problems. Image and the source of a solve problems. Less than Mass Weight Heavy Light Heavy Light Heavier than Using equally. Why are some To know how to split and identify a shape/object that has been split into two and four equal parts Make and identify halves and quarters Doubling Lighter than Why are some Know how to work out half and a quarter of a number Share and group objects into half and a quarter of a number Solving multiplication word problems. Lighter than			To know how to divide our		Making and addis a small sus	More then
Why are some places in the world always hot and others are always cold? Image: Construction of the source of the four equal parts Image: Construction of the four equal parts Solving multiplication world problems. I life time to the hour and half past cold? Image: Construction of the four and half past the hour and draw the hands on a clock the hour and the the time to the hour and the time the to hour and draw the hands on a clock the hour and the time the the time the time the hour and the time the hour and the time the time the capacity of a container in non-standard units. To know how that a minute, the time the capacity of a container in non-standard units. Chronological order the time the capacity of a container in non-standard units. To know the terms time the capacity of a container in non-standard units. To know the terms time the capacity of a container in non-standard units. To know the terms time the capacity of a container in non-standard units of measurements.			using concrete material. To know how many groups will be created from sharing	Use knowledge of division to solve problems.	Making and adding equal groups	Mass Weight Heavy Light
Why are some places in the world always hot and others are always cold? Share and group objects into always hot and others are always cold? Share and group objects into always hot and others are always cold? Share and group objects into always hot and others are always cold? Share and group objects into always hot and others are always cold? Share and group objects into always hot and others are always cold? Share and group objects into always hot and of the bour and half bour the hour and draw the halars on a clock are to show these times. Share and group objects into grains the day Share and group objects into problems on alwas are to show these times. Share and group objects into grains the day Share and group objects into grains the day Share and group objects into group of things. Share and group objects into group of the share droup of the share droup of the share droup of the share droup of the share droup of thint. Share and group objects into group of the shar			identify a shape/object that has been split into two and	5	Doubling	Lighter than
places in the world always hot and others are always cold? Tell the time to the hour and half past the hour and darw the hands on a clock react behave these times. Counting in multiples Time Sequencing To know that we use time to organise the day and month at is Sequence events in chronological order Weeks, months and years Sequence events in chronological order Weeks, months and years Sequence events in chronological order Weeks and months at years Sequence events in chronological order To know the days of the week Weeks and months at years Sequence events in chronological order To know the days of the week Weeks and months at years Sequence events in chronological order To know the days of the week Weeks and months of the year To know the terms 'empty, following, capacity and volume, Compare, describe and solve practical problems for: mass/weight [for example, faul/Empty, heavylight, heavier than, lighter than, Measure and begin to record the following: mass/weight. To know the terms 'heavy', tight, heavier than, 'lighter and the following: mass/weight. To know the terms 'heavy', tight, heavier than, 'lighter than.	Why are some		Know how to work out half	halves and quarters	problems.	
always not and others are always cold? To the hour and half pat the hour and draw the hands on a clock organise the day case to show these times. To know that we use time to organise the day organise the day and month it is Sequencing To be able to table to tabl	places in the world			•		
Cold? the hour and draw the hands on a dock organise the day the hour and half hour face to show these times. To know we need clocks to tell the time To be able to say what day and month it is Chronological order Recognise and use language To know how what a minute, hour and day is To be able to sequence events in chronological order Analogue clock/digital clock events in chronological order Sequence events in chronological order To know the days of the week and month it is Capacity and volume. Capacity and volume. Measure and begin to record the following: capacity and volume. To know the tars of the week and months of the year Use concrete materials and pictures to determine whether a container has more or less liquid than another container. volume, Compare, describe and solve practical than, half, half full, quarter]. Use concrete materials to determine whether a container in on-standard units. Standard and non standard units of measuring. Compare, describe and solve practical problems for: capacity of volume [for example, heavy/light, heavier than, lightr than lightr than lis thand	always hot and					
dates, including days of the week, months and years Itell the time and month it is Analogue clock/digital clock weeks, months and years To know how what a minute, hour and day is To be able to sequence events in chronological order Analogue clock/digital clock Weeksure and begin to record the following: capacity and volume. Compare, describe and solve practical problems for: capacity and volume [for example, full/empty, more than, less than, haif, half full, quarter]. To know the terms 'empty', full, 'more than' and 'less inquick the analysis of the example, full/empty, more than, less than. Vise concrete materials and pictures to determine whether a container has more or less inquick the ananother container. wolume, Use concrete materials of determine the capacity of a container in non-standard units. Measure and on standard units of measurements. Measure and on standard units of measurements. Compare, describe and solve practical problems for: mass/weight [for example, heav/jthjh, heavier than, ighter than]. Measure and begin to record the following: mass/weight. To know the terms 'heavy', tight', 'heavier than, 'ighter than'. Use concrete materials to determine categories for objects based on their mass. Mass,		the hour and draw the hands on a clock face to show these times.	organise the day	the hour and half hour		
using language hour and day is events in chronological order To know the days of the week To know the days of the week Use time adverbials Capacity, Measure and begin to record the following: capacity and volume. Compare, describe and solve practical problems for: capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]. To know the terms 'menpty', full, 'more than' and 'less itan'. Use concrete materials and pictures to determine whether a container has more or less iquid than another container. volume, Use concrete materials to determine the capacity of acontainer in non-standard units. measuring. measuring. Compare, describe and solve practical problems for: mass/weight [for example, heavy/light, heavier than, ighter than]. Measure and begin to record the following: mass/weight. To know the terms 'heavy', 'light', 'heavier than, 'lighter than]. Measure and begin to record the following: mass/weight. To know the terms 'heavy', 'light', heavier than, 'lighter than]. Use concrete materials to determine the capacity of another container. Mass,		dates, including days of the week, weeks, months and years	tell the time	and month it is		
and months of the yearAnd months of the yearMeasure and begin to record the following: capacity and volume. Compare, describe and solve practical problems for: capacity and volume [for example, full/empty, more than, less than, half, half full, quarter].To know the terms 'empty', than'.Use concrete materials and pictures to determine whether a container has more or less liquid than another container.volume,Use concrete materials to determine the capacity of a container in non-standard units.measuring.Standard and non standard units of measurements.Compare, describe and solve practical problems for: mass/weight [for example, heavy/light, heavier than, lighter than]. Measure and begin to record the following: mass/weight.To know the terms 'heavy', lighter than'. 'lighter than'.Use concrete materials to determine the capacity of a container.Standard and non standard units of measurements.Compare, describe and solve practical problems for: mass/weight [for example, heavy/light, heavier than, lighter than]. Measure and begin to record the following: mass/weight.To know the terms 'heavy', lighter, 'heavier than', 'lighter than'.Use concrete materials to determine categories for objects based on their mass.Mass,			hour and day is	events in chronological order	Analogue clock/digital clock	
Measure and begin to record the following: capacity and volume. To know the terms 'empty', full, 'more than' and 'less than'. Use concrete materials and pictures to determine whether a container has more or less liquid than another container. volume, Compare, describe and solve practical problems for: capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]. Image: Compare, describe and solve practical problems for: capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]. Use concrete materials to determine the capacity of a container has more or less than, half, half full, quarter]. Image: Compare, describe and solve practical problems for: mass/weight [for example, heavy/light, heavier than, 'lighter' than'. Use concrete materials to determine the capacity of a container that is a quarter the capacity of another container. Standard and non standard units of measurements. Compare, describe and solve practical problems for: mass/weight [for example, heavy/light, heavier than', 'lighter than'. To know the terms 'heavy', use concrete materials to determine categories for objects based on their mass. Mass,				Use time adverbials	Capacity,	
determine the capacity of a container in non-standard units. determine the capacity of a container in non-standard units. To be able to identify a container that is a quarter the capacity or half the capacity or half the capacity of another container. Standard and non standard units of measurements. Compare, describe and solve practical problems for: mass/weight [for example, heavy/light, heavier than, lighter than]. Measure and begin to record the following: mass/weight. To know the terms 'heavy', 'lighter than'. 'lighter than'. Use concrete materials to determine categories for objects based on their mass. Mass, Mass, weight,		Measure and begin to record the following: capacity and volume. Compare, describe and solve practical problems for: capacity and volume [for example, full/empty, more than, less	To know the terms 'empty', 'full', 'more than' and 'less	pictures to determine whether a container has more or less	volume,	
Compare, describe and solve practical problems for: mass/weight [for example, heavy/light, heavier than, lighter than]. Measure and begin to record the following: mass/weight.To know the terms 'heavy', 'light', 'heavier than', 'lighter than'.Use concrete materials to determine categories for objects based on their mass.Mass,Mass,Mass,				determine the capacity of a container in non-standard units.	measuring.	
problems for: mass/weight [for 'light', 'heavier than', 'lighter categories for example, heavy/light, heavier than, lighter than]. Measure and begin to record the following: mass/weight.				container that is a quarter the capacity or half the capacity of		
		problems for: mass/weight [for example, heavy/light, heavier than, lighter than]. Measure and begin to	'light', 'heavier than', 'lighter	determine categories for	Mass,	

			Describe the mass of an	Standard and non standard units	
			object in non-standard units using balance scales and concrete materials and in pictorial representations.	of measurements.	
		Summer Te	<u> </u>		
	Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.	Know that addition and subtraction are inverse of each other. To know the meaning of the words more, less, greater, fewer.	To solve addition and subtraction calculations	Solving addition and subtraction word problems.	AdditionSubtractionMultiplesMc
	count in multiples of 2s, 5s and 10s	To know the relevant terminology for addition and subtraction and understand the concepts of addition and subtraction.	Draw information from visual representations to inform additions and subtraction number stories.	Counting in multiplies	
	Recognise and know the value of different denominations of coins and notes.	To know to count on from the greater number. To know that two digit numbers are split into tens and ones	To structure addition and subtraction calculations when given a concrete or pictorial representation	Missing number problems	
Who were and are	Describe position, directions and movements, including whole, half, quarter and three-quarter turns.	To know number bonds to 20	Count accurately up to and back from 20 and 40	Place Value	
Manchester people?		To know the value of different coins	Identify how many tens and ones in a two digit number	Number bonds	
		To know the value of differnt notes	Continue to read number words	Positional langauge	
		To know we can record data	Effectively use a number line to perform addition and subtraction equations to 20	Money	
			To use knowledge of number bonds to 10 and 20 when adding and subtracting		
		To know we use specific	To be able to recognise coins and notes. To be able to turn according to		
		langauge to describe a turn	instructions		

	National				
Year 2	Curriculum PoS	Knowledge	Skills	Concepts	Vocabulary
		Autumn Tei	rm 1		
	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward	To be able to count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward	10s from 0.	Place value	Place Value Number Digit Part Part Whole Addition Formal Method Column Place Holder Add Subtract Part Part
	compare and order numbers from 0 up to 100; use <, > and = signs	Understand the value of numbers from 0 up to 100 Understand that all numbers	Use <, > & = to compare number sizes. identify, represent and	Addition and subtraction	Whole Vertical method,
	identify, represent and estimate numbers using different representations, including the number line	have numerical and word representation.	estimate numbers using different representations, including the number line		
	read and write numbers to at least 100 in numerals and in words	recognise the place value of each digit in a two-digit number (tens, ones)	To be able to read and write numbers to at least 100 in numerals and in words		
	recognise the place value of each digit in a two-digit number (tens, ones)	To understand addition and subtraction facts to 20 and be able to use this knowledge to derive and use related facts up to 100.	Solve problems involving place value.		
Would a Dinosaur make a good pet?	use place value and number facts to solve problems	To understand 10s and 1s to help when adding and subtracting numbers:	recall and use addition and subtraction facts to 20 fluently, to help solve more complex problems.		
make a good per	Addition and subtraction	To understand and be able to explain that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot	add and subtract numbers using concrete objects, pictorial representations, and mentally		
	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100	To understand the inverse relationship between addition and subtraction.	To use numberlines, part whole diagrams, place value charts, and the vertical method to add and subtract.		
	a two-digit number and tens		To use the inverse relationship between addition and subtraction to check calculations and solve missing number problems.		
	two two-digit numbers		solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.		

		Autumn Te	rm 2		
What lessons have we learnt from the Great Fire of London?	adding three one-digit numbers add and subtract numbers using concrete objects, pictorial representations, and mentally, including: show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing of mental and written methods solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change Multiplication and division Know and understand 2, 5, 10 times table Multiply using addition, equal groups and see patterns Solve word problems using multiplication and division facts from 2,5,10 times table	To know 2,5, 10 times table To know multiplication is the same as repeated addition To know how to divide by 2,5, 10	Addition and subtraction recite 2,5, 10 times table Use times tables to solve problems to divide by 2,5, 10	Addition and Subtraction Division and multiplication	Vertical method Times Divide Equal Groups of Lots of
	·	Spring Ter	m 1		
	Multiplication and division	Multiplication and division	Multiplication and division	Multiplication	Times Divide
What are the main differences	Use symbols for times and divide and understand grouping is a way of dividing	understand how to use them	Use the times and divide signs		Equal Equal Groups of Lots of Shape Grids Cube
between my life and a small village in	Divide by 2, 5, 10	To know that grouping is dividing	Use concrete objects, pictorial representations and mental strategies to support and solve multiplication and division problems		Cuboid Sphere Prism Pyramid2D shapes 3D shapes time minutes Seconds Hours Vertices Edges Faces Sides Properties Quadrilatera

Africa ?	Pupils should be taught to: tell and	Know there are 24 hours in a	Can read the time to 5 minute		
		day, 60 minutes in an hour, 60	intervals including o'clock, half		
	quarter past/to the hour and draw the		past, quarter to and quarter		
	hands on a clock face to show these	Understand properties for 2D	past. Use precise language to		
	times. Pupils should be taught to:	and 3D shapes include	describe the properties of 2D		
		vertices, edges, faces, sides,	and 3D shapes,		
		corners			
	identify and describe the properties of 2-			Shape	
			reasoning about similarities		
	sides and line symmetry in a vertical line	Pentagon, Octogon, Polygon	and differences in properties.		
	identify and describe the properties of 3-		Sort and describe shapes by		
		Sphere, Prism, Pyramid,	common properties.		
		Cylinder		space	
		Children begin to describe		Measurement	
		position, direction and	patterns of shapes in		
		movement in a range of	sequences		
		different situations. Children begin to move	Move shape on grids using		
	D shapes and everyday objects.	shapes using instructions	positional language (left, right,		
		written in mathematical	up, down, steps).		
		language.			
		Spring Ter	m 2		
		eping ion			Fractions Grouping Equal
					Groups
Which					Irregular shapes
					Clockwise
internationally					Anticlockwise
					Half turn
famous person did	3		Rotating shapes on a grid		Quarter turn Fractions
something	use mathematical vocabulary to	Fractions are part of number,	Writing instructions to move		Word problems related to
			Can say how many minutes in		fractions and time Vertices
incredible in the	Pupils use fractions as 'fractions of'		Find a fraction of a shape		Verex
past?	Pupils should count in fractions up to	Fractions are used to look at	Read and write fractions		Faces
P4011		Understand that the bottom	How to write fractions and		Surfaces
		Comparing and ordering	Counting in fractions (1/4 and		Flat faces
		Summer Te	rm 1		

How different are the environments close to our school?	time, fractions, money, shape, position and direction. Pupils will be taught to:	Children know how to answer one and two step problem solving questions using their acquired knowledge of shape, space and measure and the four operations. Understand that charts can be used to find answer to questions about how many. Recognise that charts can be used to compare different categories.	Children understand if a question is asking them to multiply, divide, add or subtract as well as identifying if it is a one or two step problem. Children understand which methods to use to support their working out in order to achieve the correct answer. Can construct simple pictograms, tally charts, block diagrams and tables using a 1:2 correspondence. Can interpret a simple pictogram, tally chart, block diagram or table. e.g. What does this pictogram show? Can ask and answer questions by interpreting a simple pictogram, tally chart, block diagram or table using a 1:2 correspondence. Can sort categories by their quantities in more challenging ways. Can compare different categories within the data.	Problem solving and statistics	measure time money shape position direction problem solving methods fractions
	quantity. ask and answer questions about				
		Summer Te	rm 2		
	Otatiatian		1	Chatiatian	
	Statistics interpret and construct simple pictograms, tally charts, block diagrams and simple tables.	Statistics Understand that charts can be used to find answer to questions about how many.	Statistics Can construct simple pictograms, tally charts, block diagrams and tables using a 1:2 correspondence. Can interpret a simple pictogram, tally chart, block diagram or table. e.g. What does this pictogram show?	Statistics Addition and subtraction	Compare Add Subtract Part, Part, Whole Vertical method Inverse Opposite

			0	1
How can I make a	,	Recognise that charts can be	Can ask and answer	
meying Vieterien	U 1	used to compare different	questions by interpreting a	
moving Victorian	0 1 1	categories.	simple pictogram, tally chart,	
vehicle?	quantity.		block diagram or table using a	
venicie :			1:2 correspondence. Can sort	
			categories by their quantities	
			in more challenging ways.	
	ask and answer questions about		Can compare different	
	totalling and comparing categorical data.		categories within the data.	
	Addition and subtraction	Addition and subtraction	Addition and subtraction	
	recognise and use the inverse	To understand and be able to	To use the inverse	
	•	explain that addition of two	relationship between addition	
	subtraction and use this to check	numbers can be done in any	and subtraction to check	
	calculations and solve missing number	order (commutative) and	calculations and solve missing	
	problems.	subtraction of one number	number problems.	
		from another cannot		
	solve problems with addition and	To understand the inverse	solve simple problems in a	
	subtraction:	relationship between addition	practical context involving	
		and subtraction.	addition and subtraction of	
			money of the same unit,	
			including giving change	
	using concrete objects and pictorial			
	representations, including those			
	involving numbers, quantities and			
	measures			
	applying their increasing of mental and			
	written methods			

Year 3	National Curriculum PoS	Knowledge	Skills	Concepts	Vocabulary
		Autumn Ter	'm 1		
	Number and place value	Read/ write numbers to 1000	Compare and order numbers to 1000	Place value	More Less
	Count from 0 in multiples of 4, 8 , 50, 100; find 10 or 100 more or less than a given number.	understand the place value of each digit in a three-digit number (hundreds, tens, ones)	Regrouping - 10 ones to 1 ten, 10 tens to 1 hundred, 10	Numbers to 1000	Greater Less than Ones, tens, hundreds,
	Read and write numbers up to 1000 in numerals and in words.	zero as a place holder	How to use Base 10 to make a 1-3 digit number	Addition and subtraction	thousands Fifty
What causes	Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones).	Commutative law	count from 0 in multiples of 4, 8, 50 and 100	Renaming/borrowing	Value Pattern Number line
earthquakes, volcanoes and	Identify, represent and estimate numbers using different representations.	Fact families	find 10 or 100 more or less than a given number	Column methd	Fours Eights
mountains?	Compare and order numbers up to 1000.	Know that different formal and informal methods can be used to add and subtract.	read and write numbers up to 1 000 in numerals and in words		Compare Ascend/descend
	Solve number problems and practical problems involving these ideas.	Units of measurement.	recognise the place value of each digit in a three-digit number (hundreds, tens, ones)		Addition Subtraction Column One more/less, ten
	Addition/ subtraction	2D and 3D shapes	accurately use number lines and number bonds to add and subtract		more/less, hundred more/less
	Add and subtract numbers mentally, including:	That 3D shapes can be constructed from a net.	use column method to add and subtract		Renaming/carrying Borrowing Total
	a three-digit number and ones a three-digit number and tens		solve problems estimate the answer to a calculation and use inverse operations to check answers		Altogether Take away
	a three-digit number and hundreds add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction				Concrete Pictorial Abstract
	estimate the answer to a calculation and use inverse operations to check answers solve problems, including missing number problems, using number facts,				
	place value, and more complex addition and subtraction.				

		Autumn Tei	rm 2		
	subtract numbers mentally, including: a	Know that a bar model can be used to solve number problems.	Represent a number	Bar models	Concrete Pictorial Abstract
	Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	Know that a bar can represent any number and that the rectangles or 'bars' are proportional so that a larger number in a problem is represented by a larger bar.	Add and subtract using known methods		Repeated addition Inverse Division Renaming/carrying Column multiplication Bus stop
	Estimate the answer to a calculation and use inverse operations to check answers	Know that a bar model can help us to understand which operations they need to use.	Draw a proportional bar to number	Number- multiplication and division.	Length Measure Centimeteres
	number problems, using number facts, place value, and more complex addition and subtraction.	Know why they can't subtract small digits from larger digits, and how renaming (borrowing) helps this.		Number - addition and subtraction	Millimetres Kilometres
How can I create a		Know that x 2 is the same as doubling, and how this helps with x4 and x8.	Use pictorial representations and manipulatives to group and share numbers.		
large structure to represent Manchester?	statements for multiplication and division using the multiplication tables	Know that multiplication is repeated addition and that division is inverse of multiplication.	Solve problems using different methods such as grouping, sharing, formal written methods		
		Know times tables facts for numbers 3, 4 and 8 and their corresponding division facts.	Divide by grouping - using known multiples to support		
	number problems, involving multiplication and division.	Know that there is a link between the 2, 4 and 8 times table.	Chunking – numbers can be divided in groups of 10s and 1s		
		Know that when a number is multiplied it gets bigger and divided it gets smaller.	Generate key facts for divisor		
		Know that you can use a grid method to solve a multiplication problem.	Chunking – numbers can be divided in groups of 10s and 1s		
		Know that a number can be partitioned into 10s and 1s. Know that the word 'product'	Generate key facts for divisor		
		means multiply			

	Measurement measure lengths (m/cm/mm) Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm) to the percept appropriate	Understand that multiplication is commutative, and division is not. Understand that multiplication is commutative, and division is not. How many mm are in a cm, how many cm are in a m, how many m are in a km. Use a tape measure – begin at 1, read from the marking. Know what the words length, height, distance mean.	Accurately use/ read a tape	Measure	
	the nearest appropriate unit, using rulers.	Understand what mass is. Know that 1kg = 100g Know that 1000ml = 11 Use a measuring jug to measure volume Spring Ter	m 1		
	Number Multiplication and Division - Recall and use multiplication and division facts for the 3, 4, 8 and 10 multiplication tables	Know that x 2 is the same as doubling. Know that multiplication is repeated addition	Count in multiples of 3, 4 and 8 Use pictorial representations and manipulatives to group and share numbers.	Number- multiplication and division.	Concrete Pictorial Abstract Volume
	Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods	Know times tables facts for numbers 3, 4 and 8 and their corresponding division facts.	Solve problems using different methods such as grouping, sharing, formal written methods		Weight Mass Increase Decrease, chunking factors, multiples, measure, centimetres, millimetres, metres, 3
		Know that there is a link between the 2, 4 and 8 times table.	Divide by grouping - using known multiples to support		dimensional, 2 dimensional, scales, neets
	Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.	Know that when a number is multiplied it gets bigger and divided it gets smaller.	Chunking – numbers can be divided in groups of 10s and 1s		
How did Britain change between		Know that you can use a grid method to solve a multiplication problem.	Generate key facts for divisor		
the Stone ago and		Know that a number can be partitioned into 10s and 1s.			

the otone age and		Know that the word 'product'			
Iron age?		means multiply			
non age.		Know that division is the			
		opposite of multiplication			
		Understand that multiplication			
		is commutative.			
	Measurement		How to use a ruler correctly.	Equipment must be used accurately	
	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)		Measuring in cm's accurately		
			Use standard and non- standard units to measure		
			ingredients. Use scales accurately to measure.		
	Geometry		Drawing, making, recognising 3D nets.	Shape – that different 2D shapes can be constructed to make a 3D shape	
	draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3- D shapes in different orientations and describe them		Use scales accurately to measure.		
			Drawing, making, recognising 3D nets.		
		Spring Ter	m 2		
	Number	Knowledge of how number	To apply counting on skills to	Children are given opportunity to	Concrete, abstract,
		bonds assist with simple addition and subtraction of money.	count an amount of money starting with the pounds first.	consolidate what they know about number, multiplication and addition and subtraction to measurement topics of time and money.	pictorial, more, less, greater than, less than addition, subtraction, number bonds, pounds
	count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number		To apply what they know about number bonds to add and subtract amounts of money.		pence, bar model, mass kilograms, grams, volum capacity, hour, minute second, interval, mornin
	recognise the place value of each digit in a three-digit number (hundreds, tens, ones)	To understand the importance of number bonds in mental addition and subtraction.	To apply what they know about other methods of addition and subtraction, such as the column method, when solving money problems.		afternoon, evening, am pm, roman numeral, day weeks, months, year, le year, annual, duration litres, millilitres, differen
	identify, represent and estimate numbers using different representations	To continue to count in 2s, 3s, 5s, 10s.	To apply counting on strategies and counting in 5s when telling the time.		
	read and write numbers up to 1000 in numerals and in words	Knowledge of 4 and 8 times tables.	To apply what they know about number lines to time lines.		

	solve number problems and practical	Knowledge of bar modelling		
	problems involving these ideas.			
	To use multiples of 2, 3, 4, 5, 8, 10, 50			
	and 100.			
	Pupils should be taught to:			
	add and subtract numbers mentally			
	add and subtract numbers with up to			
	three digits, using formal written			
	methods of columnar addition and			
	subtraction			
	Measurement	Understand what mass is.	Accurately read weighing	Measuring
			scales	5
	Measure, compare, add and subtract	Know that 1kg = 100g	Accurately use/ read a	Children consolidate previous
	mass (kg/g)and volume/capacity (l/ml).		measuring jug	learning on recognising different
	······································			denominations (both notes and
				coins) and the simple addition and
				subtraction of money.
	To add and subtract amounts of money	Know that 1000ml = 11	How to make different	Children further develop the
	to give change, using both £ and p in		amounts with different coins.	concepts related to addition and
Why do we love	practical contexts.			subtraction of money using
willy do we love				number bonds as a key method.
holidays in the	to tell and write the time from an	Use a measuring jug to	To be able to rename pence	That time can be told using 'a.m.'
-	analogue clock, including using Roman	measure volume	as pound when adding	and 'p.m.', to the nearest minute,
Mediterranean?	numerals from I to XII, and 12-hour and	ineasure volume	amounts of money.	using analogue and digital time
	24-hour clocks		amounts of money.	and telling time by using both the
				minute and hour hands.
				minute and nour nanus.
	to estimate and read time with	To know and recognise	To be able to 'find the	There are also other clocks such
	increasing accuracy to the nearest	different denominations of	difference' when subtracting	as 24-hour clock and clocks using
	minute; record and compare time in	money, both coins and notes.	amounts of money.	roman numerals.
	terms of seconds, minutes and hours;	money, both coms and notes.	amounts of money.	Toman numerais.
	use vocabulary such as o'clock,			
	a.m./p.m., morning, afternoon, noon and midnight			
	to know the number of seconds in a		How to work out amounts of	Time can be measured and
	minute and the number of days in each		change using subtraction	compared in seconds, hours and
	,		a b	•
	month, year and leap year to compare durations of events [for		methods.	minutes. Using a calendar, events can be
		How many pence is in a	To apply what they already	-
	example to calculate the time taken by	pound.	know about solving word	measured in days.
	particular events or tasks].		problems to problems related	
			to money. To tell the time using AM and	Montho house different number of
			0	Months have different number of
			PM on a digital and analogue	days and leap years have an
			clock.	extra day.
		How to write an amount of		
		Imoney		
		money.		
		inoney.	To be able to count on in 5s	
		money.	and then using 1 minute	

		That pence can add up to	To be able to apply their time		
		pound.	reading skills to match		
			analogue time to digital times.		
		That change is given when	To be able to write and tell the		
		you pay for an item with a	time in 12 hour and 24 hour		
		greater amount of money than	formats		
		it costs.			
		What AM and PM mean and	To read and tell the time using		
			a clock with roman numerals.		
		morning and afternoon.	a clock with fornal findinerals.		
			To use a stopwatch to		
		an analogue clock tell you.	measure and compare time in		
			seconds.		
		To know what all the markings			
		on a clock mean.	measure time in hours.		
		To understand vocabulary	To work out what the time will		
		such as o'clock, half past,	be after a number of hours,		
		quarter to, quarter past,	and to be able to count		
			backwards in hour intervals.		
		and night.			
		Roman numeral symbols up	To use interval counting and		
		to 12.	time lines to count the number		
			of minutes in a duration of		
			time.		
		There are 60 seconds in a	To use a calendar to work out		
			the number of days in a		
		and 24 hours in a day.	duration of time.		
		To be able to find the number			
		of days in a month, year and			
		leap year.			
		Summer Te			
N	lumber Recap	To know the value of each	Children use their knowledge	Children become increasing fluent	Concrete, pictorial, abstract,
				with the concepts of place value.	recapping vocabulary from
			50 and 100. They will use		Autumn. Data, axis, scale,
			larger numbers to at least		graph, horizontal, vertical,
			1000.		pictogram, chart, bar chart,
					pie chart. Fraction, quantity,
					fraction of an amount,
					denominator, numerator,
					vinculum, equal, equivalent,
					multiple, factor, inverse,
					proper fraction, improper
		To be see the set off second set	The second management of the second		fraction, whole, half, quarter,
			They will practise the skill of		third, fifth etc.
	5		using a variety of		
0	nes)	words up to 1000.	representations, including		
0	/		those related to measure.		

Why was Ancienti Egypt's civilization ahead of its time? Compare and order numbers up to 1000 They will use their knowledge of place value to apply to topics of fractions and statistics. Children have the opportunity to become increasing flastin it and its order and works. Addition and subtraction Multiplication and division Recap increasing flastin it could and subtract numbers mentally receil and use multiplication and division data. To continue to build on their increasing flastin it division flasting flast					
Why was Ancient gypt's civilization ahead of its time? Papils should be taught to: The difference between a torxiontal and write numbers up to 1000 in numerial and in words To continue to build on their knowledge of number bonds and multiplication and division facts. To apply addition and subtraction to questions and division facts. Children have the opportunity to become increasing fluent in the four operations and their knowledge of times tables. Velocity To add and subtract numbers mentally recall and use multiplication and division facts to the 3, 4 and 8 multiplication tables To transfer data from a tally chart to a picture graph and an example a table. How to create and interpret to data and subtract numbers up to 1000 in facts. Pupils should be taught to: The difference between a not picture graph is. How to draw and complete a table. Statistics What a scale on a graph is. How to draw and present data on a picture graph and bar chart. Pupils should be taught to: The difference between a not picture graph and bar chart. How to draw and present data on a picture graph and bar chart. Pupils should be taught to: The difference between a not picture graph and bar chart. How to determine a scale on a graph or chart. How to determine a scale on a graph or chart. Pupils should be taught to: That when a whole is divided equally by ten in backwards in the more and picture graphs and bar chart. Children will leam about tenths, unit fractions and how unit fractions		compare and order numbers up to 1000		,	
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into 10 equal parts and in dividing one- numerator and what this					
		с, ₁			

r	ecognise, find and write fractions of a	How to read and write	How to represent fractions		
	discrete set of objects: unit fractions	fractions.	using concrete materials.		
a	and non-unit fractions with small				
c	denominators				
r	ecognise and use fractions as	A knowledge of simple	How to understand pictorial		
r	numbers: unit fractions and non-unit	equivalent fractions.	representations of fractions.		
	ractions with small denominators		· · · · · · · · · · · · · · · · · · ·		
	ecognise and show, using diagrams,	That there is a pattern	To use a fraction diagram to		
	equivalent fractions with small	between multiplication and	determine whether fractions		
	denominators	equivalent fractions.	are equivalent or not.		
	add and subtract fractions with the	That vocabulary such as	How to construct a number		
	same denominator within one whole [for	-	line with fractions.		
	-	than" (as well as the symbols	inte with fractions.		
	example, + =]	<>=) can be used to			
		compare fractions.			
	and and and a strational and		Llave ta final a subvalant		
	compare and order unit fractions, and	That 1 can be written as a	How to find equivalent		
t t	ractions with the same denominators	fraction. This can help when	fractions with manipulatives,		
		3	pictures and multiplication. #		
		1whole.			
		That finding fractions of a	How to use pictures and draw		
a	above	number can be seen as	diagrams to find the simplest		
		sharing or division, and how to			
		write a division statement as a	equivalent fractions (including		
		fraction.	bar models and pie diagrams).		
		To know how to write a	How to use division to find the		
		fraction that is larger than 1	simplest form of a fraction.		
		whole.			
			How to look at the numerator		
			when comparing fractions with		
			the same denominator.		
			How to use manipulatives to		
			find a fraction of a set.		
		_			
		Summer Ter	rm 2		
F	Properties of shapes and Angles	know what an angle is	to use an angle measurer	Shape	Concrete, pictorial, abstract.
	-		(protractor) to measure angles,		See Fractions. Angle, obtuse,
					acute, straight line, diagonal,
r	ecognise angles as a property of	identify a right angle	draw lines using a ruler or	Angles	reflex, whole, greater, less
	shape or a description of a turn		protractor		than, turn, half turn, three
		identify parallel lines and	identify different 2D and 3D		quarter turn, vertices/vertex,
		perpendicular lines	shapes by description		edge, face, parallel,
	hree quarters of a turn and 4 a				perpendicular, perimeter,
	complete turn; identify whether angles				area, shape, square,
	are greater than or less than a right				rectangle, triangle, pentagon,
	angle				parallelogram.
	0	understand that 2 right angles	make 3D shapes using		parallelogram.
	-	0 0			
1	pairs of perpendicular	make a half turn, 3 make ³ / ₄	modelling materials		
		and 4 make a complete turn			

How did the	draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3- D shapes in different orientations and describe them	compare angles	identify parallel and perpendicular lines		
blossom become an apple?		know what a 2D and 3D shape is and describe the difference	identify horizontal and vertical lines		
		identify face, vertices, edges	how to measure the perimeter of a shape		
		know the difference between parallel and perpendicular lines			
		know the difference between horizontal and vertical lines understand the word perimeter			
			how to calculate a part of a set of items	Fractions	
	fractions with small denominators	fractions can be used to calculate a part of a number	how to calculate a part of a number		
	•	fractions can be used to share more than 1	how to share more than 1		

Year 4	National Curriculum PoS	Knowledge	Skills	Concepts	Vocabulary
		Autumn Ter	rm 1		
	Number & Place Value	Know that objects can be grouped and counted in multiples of 6,7,9,25 and 100 both forwards and backwards and in any sequence	Counting in multiples of 6,7,9,25 and 100 backwards and forwards, spotting patterns within a sequence	Numbers up to 1000	Place value, digit, sequence, order, value, compare, numeral, number, Manipulatives, base 10, representation, place value counters, strategy, counting,
		Knowing how to add and subtract 1000 from a given number	Using a number line / counting stick to make count in 6,7,9,25 and 100		groups, grouping partition, negative numbers, place value chart, addition,
	number	Know the meaning of 'more' and 'less' in the context of counting forwards and backwards	Using mental strategies and place value knowledge to add and subtract 1000 from each number	Addition, Subtraction	subtraction, renaming, estimate, rounding, multiples, method
	count backwards through 0 to include negative numbers	Know what a negative number is and when they might be used in a real life context (e.g. temperature)	Using correct vocabulary to show counting forwards and backwards	Rounding	
	in a four-digit number (1,000s, 100s, 10s and 1s)	Know how to count backwards through 0 to include negative numbers	Recognising and reading any four-digit number	Estimating	
	Morder and compare numbers beyond 1,000	Know the difference between 'digit', and 'number'	Reason and explain about the place value of any 4 digit number and apply understanding to solving problems	Negative Numbers	
	numbers using different representations	Understand the place value of a four-digit number and able to visualise and conceptually explain in a real life context	Using greater than, less than and equal to symbols to order and compare numbers beyond 1000		
	round any number to the nearest 10, 100 or 1,000	Understand the order of numbers beyond 1000 using place value knowledge	Placing numbers on a number line in a linear fashion		
Ancient Greeks	solve number and practical problems that involve all of the above and with increasingly large positive numbers	Understand the meaning of key vocabulary for comparison; greater than, less than, equal to	Able to construct, demonstrate and explain numbers constructed in a range of ways, i.e. through the use of manipulatives and physical resources and abstract representations		

Add and subtract numbers with up to 4	Know how to use	Applying place value		
digits using the formal written methods	manipulatives to show and	knowledge to use rounding		
of columnar addition and subtraction	represent numbers in various	rules to round up and down to		
where appropriate	ways	the nearest 10, 1000 or 1000		
estimate and use inverse operations to	Understand in context, the	Explaining when rounding is		
check answers to a calculation	meaning of rounding to the	used in real life contexts i.e. in		
	nearest 10, 100 or 1000	the context of money		
solve addition and subtraction two-step	A good grasp on the need for	Apply methods and		
	5 5 1			
	rounding and the rule for	approaches to problem solving		
operations and methods to use and	rounding			
why.				
	Know and understand a range	Adding and subtracting		
	of problem solving strategies	numbers with up to 4 digits		
	explored in class	using formal written methods		
	Know a range of strategies	Using manipulatives to aid in		
	that can be used to add and	addition and subtraction using		
	subtract:	formal and mental methods		
	Subtract.			
	- Mental maths	Coluing addition and		
	- Mental maths	Solving addition and		
		subtraction word problems in		
		context and explaining		
		reasoning		
	- Column	Column		
	- Number line	Number line		
	- Number facts and bonds	Number facts and bonds		
	Know which manipulatives			
	can be used to aid place			
	value, addition and subtraction			
	Autumn Ter	m 2		
recall multiplication and division facts	Know and understand	Recalling multiplication facts	Multiplication	multiplication, division,
	multiplication facts for 11, 12	for 11, 12 and 9 times tables		multiply, divide, multiply,
	and 9 times tables.	using a range of strategies,		divide, part-part-whole,
		helped with models and		partition, product, divisor,
· · · · · · · · · · · · · · · · · · ·		images	- · · ·	commutative, multiplicand,
use place value, known and derived	Know and understand division	Applying multiplication fact	Division	multiple
facts to multiply and divide mentally,	facts for 6,7 and 9s.	knowledge to using the		
including: multiplying by 0 and 1;		expanded method for		
dividing by 1; multiplying together 3		multiplication		
numbers				
recognise and use factor pairs and	Know and understand the	Grouping objects, models and		
commutativity in mental calculations	relationship between	images practically when		
-	multiplying by 11 and 12.	exploring multiplication and		
	indupying by 11 and 12.	exploring multiplication and	1	
		division		

	multiply two-digit and three-digit numbers by a one-digit number using formal written layout solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.	Know and understand how to divide with a remainder. Know and explore how to divide with a remainder further through models and images for increasingly difficult numbers.	Noting similarities and differences in multiplication and division and thinking about how the two are related Using subject specific vocabulary and explaining through reasoning a deeper understanding of the concepts taught	
What are the main features of the UK?		Know how to solve word problems involving multiplication and division. Know and understand the difference between multiplying and dividing by 0 and 1	Building on prior knowledge of 10x tables to help work out how to multiply and divide by 10, 100 and 1000 Using formal written method for multiplication and division effectively	
		Understand the small steps needed to divide by 10, 100 and 1000 Know and understand how to multiply the same two numbers	division	
		Know and understand how to multiply the same three numbers Know and understand how to use the expanded column method to multiply numbers Know and understand how	Speaking confidently about the law of commutativity and when it applies to the lesson Using inverse of operations to check one's own work	
		using a part, part whole model can help with partitioning to multiply Know and understand how to find multiples of 1000 Know how to use the formal		
		written method for dividing 2- digit numbers Know how to use the formal written method for dividing 3- digit numbers		

	recall multiplication and division facts for multiplication tables up to 12 × 12 solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.	Know and understand multiplication facts for 11, 12 and 9 times tables. Know and understand division facts for 6,7 and 9s.	for 11, 12 and 9 times tables using a range of strategies, helped with models and images	Division	multiplication, division, multiply, divide, part-part- whole, partition, product, divisor, commutative, multiplicand, multiple, groups of, lots of, share, column method, divided by, multplied by, repeated addition, repeated subtraction, remainder
	multiply two-digit and three-digit numbers by a one-digit number using formal written layout interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs	Know how to solve word problems involving multiplication and division.	Solving problems involving multiplication and division using a range of strategies Understanding the relationship between multiplication and division	Graphs / Statistics Fractions	
	solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	Know and understand how to use the formal expanded method for multiplication and formal short division method for dividing	Using inverse of operations to check one's own work		
	recognise and show, using diagrams, families of common equivalent fractions	Know and understand how to interpret and present discrete and continuous data	Interpreting picture graphs and bar graphs and noting relevant data including trends		
	count up and down in hundredths; recognise that hundredths arise when dividing an object by a 100 and dividing tenths by 10.	Understand the difference between varying types of graphs including bar charts and line graphs over time	Analysing line graphs and considering how they are used to measure change over time		
What happens to the food we eat?	solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number	Understand how to solve problems using data presented in bar charts, pictograms, tables and other graphs	Interpreting line graphs and using information collected to draw line graphs		
	add and subtract fractions with the same denominator	Know and understand the subject specific vocabulary included in fractions unit	Making predictions based on trends identified in data		
		Know how to count up and down in hundredths Know that hundredths come from dividing by 100 and dividing tenths by 10	Drawing and reading picture graphs and bar graphs Identifying, recognising and counting in hundredths		

		Comparing and noting	
	5 5	difference between mixed	
	calculating fractions of	number fractions and	
	amounts and dividing fractions	improper fractions	
	with whole numbers		
	Know how to add and subtract	Converting between mixed	
	unit fractions	numbers and improper	
		fractions	
	Know and understand how to	Adding and subtracting	
	recognise and write decimal	fractions including solving	
		word problems involving	
		addition and subtraction	
	Understand and represent	Writing mixed numbers and	
		showing them on a number	
	and ¾	line	
		Finding equivalent fractions	
		Simplifying mixed numbers	
		Simplifying improper fractions	
		Identifying decimal	
		equivalents of tenths and	
		hundredths	
		Identifying and recognising	
		decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$	
		and ¾	

Spring Term 2

	I			
Number	Know and recognise decimal equivalents of any number of	Recognising decimal equivalents of any number of	Decimals	time, AM, PM, 24-hour, O'clock, Half past, Quarter
	tenths and hundredths	tenths and hundredths		Past. Analogue, Digital,
Decimals	Understand how to write	Writing decimal equivalents of	Fractions	decimals, hundredths, tenth
	decimal equivalents of any	any number of tenths and		equivalent, dividing by 10,
	number of tenths and	hundredths		dividing by 100, rounding
	hundredths			
recognise and write decimal	Know the decimal equivalents	Recognising and finding	Equivalents	
equivalents of any number of tenths or	to ¼, ½ and ¾	decimal equivalents to 1/4, 3/4		
hundredths		and ½		
recognise and write decimal	Know how to divide a 1 or 2-	Dividing a 1 or 2-digit number	Division	
equivalents to ¼; ½; ¾	digit number by 10 and 100	by 10 and 100 and		
	and understand the value of	recognising the value of the		
	the digits in the answers up to	digits in the answers as tenths		
	tenths and hundredths	and hundredths		
Ma4/2.4g find the effect of dividing a	Know how to round decimals	Rounding decimals with 1	Money	
one or two-digit number by	with 1 decimal place to the	decimal places to the nearest		
	nearest whole number	whole number using the rules		
		for rounding. Applying the		
		knowledge of rounding from		
		Number topic		

What are the main differences about living in the UK and Spain?	digits in the answer as ones, tenths and hundredths round decimals with 1 decimal place to the nearest whole number compare numbers with the same number of decimal places up to 2 decimal places	Understand when rounding decimals would be used in a real life context and know how to solve real life problems involving rounding decimals Know how to compare decimals with numbers with up to 2 decimal places Understand the rules for comparison of numbers including the use of the greater than and less than symbol Know and understand how to solve simple money problems involving fractions and decimals and choose the appropriate calculation necessary by applying knowledge of four operations Know to difference between analogue and digital 12 and 24-hour clocks. Know the difference between analogue and digital 24-hour clocks. Know how to solve problems involving conversion, including the rules needed to convert	problems involving decimals in a real life context Comparing decimals with up to 2 decimal places and using the greater than and less than symbol to show the difference Solving problems involving money, fractions and decimals by applying knowledge of the four operations Reading analogue and digital 12 and 24-hour clocks Writing the time in analogue and digital 12 and 24-hours Converting between analogue	Rounding	
	analogue and digital 12 and 24-hour	involving conversion, including		Conversion	

	a problema involving	Know the verying write of	Solving problems and		
SOIVE			Solving problems and applying problem solving skills		
		including all mentioned	when converting between		
			different formats of time		
		measurements.	different formats of time		
conv	verting from hours to minutes,		Applying the rules for		
minu	utes to seconds, years to		conversion between hours		
			and minutes, minutes and		
			seconds, years and months		
			and weeks and days.		
mon	oths, weeks to days		Applying knowledge of time to		
			real life settings and		
			explaining the need for		
			analogue and digital 12 and		
			24-hour clocks based on real		
			life situation.		
add	and subtract fractions with the		Adding and subtracting		
sam	ne denominator		fractions including solving		
			word problems involving		
			addition and subtraction		
			Simplifying mixed numbers		
Num	1		Recognising and finding decimal equivalents to ¼, ¾ and ½		multiplication by 10, 100 and 1000 in the context of metric units, convert from larger to
reco					smaller units: kg to g; m to
	-		decimal places to the nearest		cm, m to mm and I to ml.
			whole number using the rules		
			for rounding. Applying the		
		•	knowledge of rounding from		
			Number topic		
	· · · · · · · · · · · · · · · · · · ·		5 5	Equivalents	
		digit number by 10 and 100	problems involving decimals		
the v	value of the digits in the answer as	and understand the value of	in a real life context		
ones	s, tenths and hundredths	the digits in the answers up to			
		tenths and hundredths			
	· · · · · · · · · · · · · · · · · · ·	Know and understand how to		Division	
the r			to 2 decimal places and using		
			the greater than and less than		
		decimals and choose the	symbol to show the difference		
		appropriate calculation			
		necessary by applying			
ow did Britain		knowledge of four operations			

change between			Dividing a 1 or 2-digit number by 10 and 100 and	Money	
the end of the Iron			recognising the value of the		
			digits in the answers as tenths		
Age and the end of			and hundredths		
the Roman			Solving problems involving	Rounding	
			money, fractions and decimals		
occupation?			by applying knowledge of the four operations		
•					
Ν	Measurement	Know the how to solve simple	Solving simple money and	Mass	
		measure and money problems	measure problems and using		
		using the appropriate methods			
		for calculation	calculation		
s	solve simple measure and money	Know how to estimate,	Estimating, comparing and	Volume	
	problems involving fractions and	compare and compare and	rounding to calculate measure		
	decimals to 2 decimal places.	calculate different measures			
	estimate, compare and calculate	Understand how to estimate	Rounding to the nearest	Length	
	different measures, including money in bounds and pence Mass, Volume &	amounts of money in pounds and pence and know how to	pounds and pence, applying knowledge of decimal place		
	_ength	round to the nearest pounds	value		
	-01.911	and pence	Value		
c	convert between different units of	Know and apply knowledge of	Converting between different	Rounding / Estimating	
n	neasure	place value of tenths and	units of measure		
		hundredths to rounding money			
-		Know how to convert between		Place Value	
		different units of measure			
		Summer Te	rm 2		
	Geometry	Know how to measure and	5 1		Area, Perimeter, Rectilinear,
		calculate the perimeter of a	area of rectilinear figures		Squares, Centimetre, Meter,
		rectilinear figure in centimetres and meters			Angles, Acute, Obtuse, Right angle, Triangle, Degrees,
-	measure and calculate the perimeter of	Know the difference between	Applying knowledge of		Equilateral, Isosceles, Right-
	a rectilinear figure (including squares)	units of measurement, i.e.	multiplying by 10, 100 and		angles triangle, Quadrilateral,
in	n centimetres and metres	centimetres, meters, kms	1000 in conversions of units		Position, Polygon
fi	ind the area of rectilinear shapes by	Know how to find the area of a			
	counting squares	rectangle by counting squares			
	Assessment and allocative assessed	Know how to onniv knowledge			
	Mcompare and classify geometric shapes, including guadrilaterals and	Know how to apply knowledge of multiplying by 10, 100 and			
	riangles, based on their properties and	1000 in the to convert from			
	sizes	larger to smaller units of			
		measurement			
functional					

electronic torch?	identify acute and obtuse angles and compare and order angles up to 2 right angles by size identify lines of symmetry in 2-D shapes presented in different orientations		
	complete a simple symmetric figure with respect to a specific line of symmetry. describe positions on a 2-D grid as		
	coordinates in the first quadrant describe movements between positions as translations of a given unit		
	to the left/right and up/down plot specified points and draw sides to complete a given polygon		

Year 5	National Curriculum PoS	Knowledge	Skills	Concepts	Vocabulary
		Autumn Ter	'm 1		
	Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit	Know the value of digits in numbers up to 1 million	Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit	A digit's value is determined by its Place Value.	Place Value Roman Numerals Negative Number Addition Subtraction Round Column
	Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000	Know the difference between 'digit' and 'number'	Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000	Roman Numerals can be used to represent numbers.	
	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0	Know what is meant by 'powers of 10'	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0	Negative numbers can be used to represent values less than zero.	
	Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000	Know what a negative number is and when they might be used in a real life context (e.g. temperature)	Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000	Column Addition	
	Solve number problems and practical problems that involve all of the above	Know what rounding is and when it might be used	Solve number problems and practical problems that involve all of the above	Column Subtraction	
	Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals	Know a variety of ways to solve problems	Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals	Rounding numbers to nearest 10,100,1000.	
How is a river formed		Build Mathematical vocabulary for reasoning and problem solving (know what D.A.B stands for)	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)		
	Add and subtract numbers mentally with increasingly large numbers	Know what Roman numerals are and how we represent numbers using them	Add and subtract numbers mentally with increasingly large numbers		
	Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy	Know a range of strategies that can be used to add and subtract:	Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy		
	Solve addition and subtraction multi- step problems in contexts, deciding which operations and methods to use and why		Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why		

	Autumn Ter	<mark>m 2</mark>		
finding all factor pairs of a number, and common factors of 2 numbers	of the formal written methods of short multiplication and short division. They apply all the multiplication tables and related division facts frequently, commit them to memory and use them confidently to make larger calculations.	and relevant division facts to make larger calculations.	facts can be used to solve larger problems.	Multiplication and division multiple factor square number cube number prime number perimeter area composite
numbers, prime factors and composite (non-prime) numbers	division as inverses to support	factor, multiple and prime, square and cube numbers.	A factor is a number that divides exactly into a larger number. A multiple is a number in a particular times table. A prime number only has 2 factors(itself and 1). A square number is a number multiplied by itself. A cube number is a number multiplied by itself and itself again.	
is prime and recall prime numbers up to 19	multiple and prime, square and cube numbers and use them to construct equivalence statements (for example, 4 x	Interpret non-integer answers to division by expressing results in different ways according to the context, including with remainders, as fractions, as decimals or by rounding (for example, $98 \div 4$ = 24 r 2 = 24 = 24.5 ≈ 25).		

	multiply pumboro up to 4 digita by a sec	Understand which	Lies and avalain the source	
	or two-digit number using a formal	Understand which representation of data is the most effective.	Use and explain the equals sign to indicate equivalence, including in missing number problems (for example 13 + $24 = 12 + 25$; $33 = 5 \times ?$).	
How did Britain	multiply and divide numbers mentally,	Connect work on coordinates		
change between	drawing upon known facts	and scales to interpretations of time graphs.		
the end of the	divide numbers up to 4 digits by a one-	Know how to calculate the		
Roman occupation		perimeter of shapes.		
	method of short division and interpret			
and 1066?	remainders appropriately for the context			
	multiply and divide whole numbers and	Understand how to find		
	those involving decimals by 10, 100 and 1,000	unknown lengths.		
	recognise and use square numbers and			
	cube numbers, and the notation for			
	squared (²) and cubed (³)			
	solve problems involving multiplication			
	and division, including using their knowledge of factors and multiples,			
	squares and cubes			
	solve problems involving addition,			
	subtraction, multiplication and division			
	and a combination of these, including understanding the meaning of the			
	equals sign			
	solve problems involving multiplication			
	and division, including scaling by simple			
	fractions and problems involving simple rates			
	Solve comparison, sum and difference			
	problems using information presented			
	in a line graph			
	Complete, read and interpret information in tables, including			
	timetables			
	Measure and calculate the perimeter of			
	composite rectilinear shapes in			
	centimetres and metres Calculate and compare the area of			
	rectangles (including squares),			
	including using standard units, square			
	centimetres (cm ²) and square metres			
	(m ²), and estimate the area of irregular			
	shapes			

		Spring Ter	m 1		
	Multiply and divide numbers mentally drawing upon known facts.	know how to use 0 as a place holder	Use a formal written method to multiply larger numbers (column and grid).	Larger Multiplication and division problems can be solved using formal written methods.	formal column grid fraction denominator numerator tenth hundredth equivalent mixed
	Multiply numbers up to 4 digits by a one or two digit number using a formal written method, including long multiplication for 2-digit numbers.	Know it's important to set out numbers in columns to multiply	Multiply a 4 digits number by a 1 digit number	Equivalent Fractions	number improper fractions
		Know how to partition numbers to multiply	Multiply 2 digits by 2 digits	Mixed numbers	
	Solve problems involving addition and subtraction, multiplication and division and a combination of these, including understanding the use of the equals sign	Know the value each digit digit represents in a calculation	Multiply 3 digits by 2 digits	Improper fractions	
	Compare and order fractions whose denominators are multiples of the same number.	Know when to exchange digits	Multiply 4 digits by 2 digits		
	Identify, name and write equivalent fractions of a given fraction, represented visually including tenths and hundredths.	Know how to represent multiplication using base ten, place value counters and grid method	Multiply 4 digits by 3 digits		
	Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number [for example $\frac{2}{5}$, + $\frac{4}{5}$,= $\frac{6}{5}$, = 1 $\frac{1}{5}$,]	Know why a larger numbers is written above a smaller one for multiplication	Use a formal written method to divide numbers (short division).		
	Add and subtract fractions with the same denominator and denominators that are multiples of the same number.	Know how to use place value to partition numbers and then group to develop Know that fractions need to	Divide 4 digits by 1 digit		-
How can I create a		have the same denominator before adding	remainders		
watermill system?		Know how to represent fractions in their simplest form	Solve words problems which require a formal multiplication or division calculation and explain reasoning		
		Understand what remainers represent in context and know whether to round a remainer up or down.	Use multiplication and division facts to find equivalent fractions.]

		Know what is meant by an	Visually represent a mixed		
		equivalent fraction and give	number and an improper		
		examples	fractions		
		Know what is the same and	Use multiplication and division		
		what is different about the	facts to convert improper		
		numerators and denominators	fractions to a mixed number		
		in the equivalent fractions.	and a mixed number to an		
			improper fraction		
		Know what a mixed number	Find intervals in fraction		
		and an improper fraction is.	sequences, converting mixed		
			numbers and improper		
			fractions where necessary		4
		Know how to count up and	Find a common denominator		
		down in a given fraction	or a common numerator using		
			multiplication and division facts		
					4
		Know how to count up and	Draw pictorial diagrams to		
		down in a given fraction	add and compare fractions		4
		Compare and order fractions	Find a common denominator		
		less than 1 where the	or a common numerator using		
		denominators are multiples of	multiplication and division facts		
		the same number.			
		Know how to compare and	Draw pictorial diagrams to		
		order fractions greater than 1	add and compare fractions		
		Know how to compare and	Draw pictorial diagrams to		
		order fractions greater than 1	add and compare fractions		
		Spring Ter	m 2		
	multiply proper fractions and mixed	Know strategies to multiply	Multiply proper fractions &	Understand what a decimal	decimal percentage proportion
	numbers by whole numbers, supported	fractions	mixed numbers by whole	number is	aconnai percentage proportion
	by materials and diagrams		numbers		
	read and write decimal numbers as	Know and recognise	Read, write, order & compare	Understand what a percentage is	
	fractions [for example, $0.71 = 71/100$]	thousandths	numbers with up to three d.p.	ondorotana unat a porocinago io	
	recognise and use thousandths and	Recognise the percent symbol	Round decimals with two	Understand percentages are	
	relate them to tenths, hundredths and	(%)	decimal places to the nearest	fraction of 100	
	decimal equivalents		whole number & to one d.p		
	·····				
	round decimals with 2 decimal places	Know FDP equivalents.	Solve problems involving	Understand what the % symbol	1
	to the nearest whole number and to 1		numbers up to three d.p.	stands for	
	decimal place				
	read, write, order and compare		Solve problems which require	Fractions, decimals and	
	numbers with up to 3 decimal places		knowing percentage &	percentages are different ways of	
			decimal equivalents	expressing proportions.	
another human to	solve problems involving number up to		Show links between fractions,	Use visuals and concrete	
	3 decimal places		decimals and percentages	resources to represent fractions,	
				decimals and percentages	
				,	

	recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per 100', and write percentages as a fraction with denominator 100, and as a decimal fraction solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those				
	fractions with a denominator of a multiple of 10 or 25				
		Summer Te	rm 1		
		Summer re			
	-read and write decimal numbers as fractions [for example, 0.71 =]	Understand that fractions, decimals and percentages link to one another	Convert decimals into fractions and percentages	Values can be represente by Fractions or Decimals	Fraction Decmal Percentage
	-recognise and use thousandths and relate them to tenths, hundredths and decimal	Know that percentages, decimals and fractions can be equivalent	Use manipulatives to represent thousandths, hundredths and tenths	Percentages relates to number of parts per hundred.	
	equivalents	Understand that a range of resources can be used to	Round decimals	Identify equivalent fractions, decimals and percentages.	
	-round decimals with 2 decimal places to the nearest whole number and to 1 decimal place	represent decimals, percentages and fractions (numberlines, counters, PV grids etc).	Order and compare decimal numbers		
	-read, write, order and compare numbers with up to 3 decimal places	Know what 'crossing the boundary or whole' means	Add decimals within 1		
	-solve problems involving number up to 3 decimal places		Subtract fractions within 1		
Why should the rainforests be important to us all?	-recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per 100', and write percentages as a fraction with denominator 100, and as a decimal fraction		Add and subtract fractions with the same decimal place		
	-solve problems which require knowing percentage and decimal equivalents of , , , , and those fractions with a denominator of a multiple of 10 or 25		Add and subtract fractions with a different decimal place		
			Order/sequence decimals and percentages Multiply and divide fractions by		
			10, 100 and 1000 Order/sequence decimals and percentages		
			Order/sequence decimals and percentages		

			Multiply and divide fractions by		
			10, 100 and 1000		
		Cummer Te		1	
		Summer Te	1111 Z		
	Use all four operations to solve problems involving measure (e.g.		Can convert between different	-	Addition, Subtraction,
	length, mass, volume, money) using decimal notation including scaling.	to use based on the language in a question	units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	accurately using a protractor	Multiplication, Division, Metric and imperial units of measurement, Volume, Time, 2D/3D shape, Translation, Coordinates,
	Convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	Know when to use manipulatives to support their own learning	Can multiply and divide by 10/100/1000 using decimal place values	Measure and draw lines to the nearest mm using a ruler	Symmetry, Angles
	Understand and use equivalences between metric units and common imperial units such as inches, pounds and pints	Understand equivalences between metric units and common imperial units such as inches, pounds and pints.	Use equivalences between metric units and common imperial units such as inches, pounds and pints.	Identify and mark parallel and diagonal lines correctly	
	Estimate volume (e.g. using 1 cm3 blocks to build cubes and cuboids) and capacity (e.g. using water)	Understand why we have different units of measurement	cuboids) and capacity (e.g. using water)	Read the x then the y axis when identifying and marking points on a grid	
	Solve problems involving converting between units of time	Understand the difference between volume and capacity	Convert units of time from digital and analogue clocks and timetables	Use a mirror to reflect shapes using a line of symmetry	
	Use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling.	Understand that estimate is a calculated judgement of value	Confidently apply written methods for all four operations to calculate answers to measurement problems		
Why were the	Identify 3D shapes, including cubes and other cuboids, from 2D representations.	units of time including (12 and 24 hours)			
Mayans the envy of the world?	Use the properties of rectangles to deduce related facts and find missing lengths and angles.	Know that lines can be described as diagonal and parallel and identify these on 2D and 3D shapes			
		Know that a right angle is 90 degrees, a straight line is 180 degrees and a full circle is 360 degrees.			
	Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.	Know that a right angle is 90 degrees, a straight line is 180 degrees and a full circle is 360 degrees.			
	Know angles are measured in	an acute angle is between 0 and 90 degrees			

degrees: estimate and compare	an obtuse angle is between 90 and 180 degrees		
acute, obtuse and reflex angles.	a reflex angle is between 180 and a full circle		
Draw given angles, and measure them in degrees.	Know how coordinates are written in a grid form and used to identify specific points on a grid		
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	Can correctly identify the x and y axis		
Identify, describe and	Know that a line of symmetry is the reflection or mirror line		
represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.	Can correctly identify the x and y axis		
	Know that a line of symmetry is the reflection or mirror line		

Year 6	National Curriculum PoS	Knowledge	Skills	Concepts	Vocabulary
		Autumn Ter	rm 1		
	Count forwards or backwards in steps of integers, decimals, powers of 10	Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1.	use the relationship between powers of 10 to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000).	Number and place value	Place value, digit, sequence, order, value, compare, numeral, integers, representation, place value counters, strategy, partition, negative numbers, place value chart, power of 10,
	Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit		compose and decompose numbers up to 10 million using standard and non-standard partitioning.	Addition, multiplication, Subtraction and Division	exchange, Roman numerals, estimate, rounding, multiples, approximate
	Identify, represent and estimate numbers using the number line	0.1 is 10 times the size of 0.01.	Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts.		
	Order and compare numbers including integers, decimals and negative numbers	between powers of 10 from 1 hundredth to 10 million	Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.		
	Round any whole number to a required degree of accuracy	place value of each digit in numbers up to 10 million, including decimal fractions	Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding.		_
	Use negative numbers in context, and calculate intervals across zero	All multiplication table (up to 12) facts, and corresponding division facts	use negative numbers in context, and calculate intervals across zero		
	Describe and extend number sequences including those with multiplication and division steps, inconsistent steps, alternating steps and those where the step size is a decimal	Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships			

	Solve number and practical problems	Multiply and divide numbers		
	that involve all of the above	by 10 and 100; understand		
		this as equivalent to making a		
		number 10 or 100 times the		
What impact did		size, or 1 tenth or 1 hundredth		
-		times the size.		
World War 1 and	Choose an appropriate strategy to			
World War 2 have	solve a calculation based upon the			
	numbers involved (recall a known fact,			
on people?	calculate mentally, use a jotting, written method)			
	Select a mental strategy appropriate for			
	the numbers in the calculation			
	Solve addition and subtraction multi-	Understand that 2 numbers can	Children use the formal	
	step problems in contexts, deciding	be related additively or multiplicatively, and quantify	column method for numbers	
	which operations and methods to use	additive and multiplicative	with the same and different	
	and why	relationships (multiplicative	numbers of digits. They also practise mental strategies with	
		relationships restricted to	both large and small numbers,	
		multiplication by a whole	using their understanding of	
		number).	place value.	
	Solve problems involving addition,		Children solve multi-step	
	subtraction, multiplication and division		problems, choosing which	
			operations and methods to	
			use based on the context of	
			the problem and the types of	
			numbers involved.	
	Use estimation to check answers to			
	calculations and determine, in the			
	context of a problem, an appropriate			
	degree of accuracy Identify common factors, common			
	multiples and prime numbers			
	Multiply multi-digit numbers up to four			
	digits by a 2-digit whole number using			
	the formal written method of long			
	multiplication			
	Perform mental calculations, including			
	with mixed operations and large			
	numbers			
	Divide numbers up to four digits by a 2-			
	digit number using the formal written			
	method of short division where			
	appropriate, interpreting remainders			
	according to the context			

	Divide numbers up to four digits by a 2- digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context				
		Autumn Tei	rm 2		
	Compare and order fractions, including fractions > 1 (including on a numberline)	Identifying the highest common factor and building on knowledge of equivalent fractions	Recognise when fractions are not in their simplest form. They should use their understanding of common factors to simplify fractions.	Fractions	Denominator, division, numerator, multiple, factor, equivalent, simplify, equal groups, proper, unitary, improper, axes, four
	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination	and the same position in the linear number system.	Divide the numerator and denominator by the highest common factor to express a fraction in its simplest form	Multiples	quadrants, position, direction, translation, reflections
	Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts	Pupils should learn that when the numerator and denominator of a fraction have no common factors (other than 1) then the fraction is in its simplest form.	When given 2 fractions pupils can express them with the same denominator.	Factors	
		Pupils should learn that a fraction can be simplified by dividing both the numerator and denominator by a common factor. They must realise that simplifying a fraction does not change its value, and the simplified fraction has the same position in the linear number system as the original fraction.	Apply what they already know about writing equivalent fractions to express the fractions in a common denomination	Addition, Subtraction, multiplication and Division	
How does the Earth recycle water?	Associate a fraction with division and calculate decimal fraction equivalents	Knowledge of negative numbers	Find a common multiple of the denominators by multiplying the 2 denominators is sufficient.		
	Add and subtract fractions with different denominators and mixed numbers,	How to translate a shape across four quadrants	Work with pairs of fractions where one denominator is not a multiple of the other	2D shapes	
	using the concept of equivalent fractions	How to reflect in all four quadrants	Compare and order fractions	Negative numbers	

Multiply simple pairs of proper fractions,	Understanding about where	Plot within four axes		
writing the answer in its simplest form	coordinates lie across all four			
········g ···· - ······ ···· ···· ····· ·····	quadrants			
Divide proper fractions by whole	Understanding about the	Draw a 2D shape with given		
numbers	length of a line using the	coordinates		
	coordinates of its endpoints			
Describe positions on the full	Coordinates knowledge to	Estimate where coordinates		
coordinate grid (all four quadrants)	reflect shapes correctly	will be: which quadrant		
Draw and translate simple shapes on	Compare/classify geometric	Calculate difference between		
the coordinate plane, and reflect them	shapes based on the	negative and positive		
in the axes	properties and sizes	coordinates		
	Draw 2-D shapes using given	Use directional language and		
	dimensions and angles from	instructions to translate a		
	the coordinate plane	shape		
	Spring Ter	m 1		
				1
Count forwards or backwards in steps	Understand the relationship		Fractions, Decimals and	Equivalence, tenths, hundredth
of integers, decimals, powers of 10	between powers of 10 from 1		Percentages	thousandths, fraction, decimal,
	hundredth to 10 million, and	including decimal fractions, in		multiply and divide, denominat number line, equal parts Imper
	use this to make a given	the linear number system, and		metric, measurements, side
	number 10, 100, 1,000, 1	round numbers, as		, , , ,
	tenth, 1 hundredth or 1	appropriate, including in		lengths, distance, capacity, weight, ratio, scale factor
	tenth, 1 hundredth or 1 thousandth times the size			lengths, distance, capacity,
	tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100	appropriate, including in		lengths, distance, capacity,
	tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000)	appropriate, including in contexts.		lengths, distance, capacity,
Identify the value of each digit to three	tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) Recognise the place value of	appropriate, including in contexts.	Ratio and Proportion	lengths, distance, capacity,
Identify the value of each digit to three decimal places	tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) Recognise the place value of each digit in numbers up to 10	appropriate, including in contexts.	Ratio and Proportion	lengths, distance, capacity,
, , , , , , , , , , , , , , , , , , , ,	tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) Recognise the place value of each digit in numbers up to 10 million, including decimal	appropriate, including in contexts.	Ratio and Proportion	lengths, distance, capacity,
, , , , , , , , , , , , , , , , , , , ,	tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and	appropriate, including in contexts.	Ratio and Proportion	lengths, distance, capacity,
, , , , , , , , , , , , , , , , , , , ,	tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10	appropriate, including in contexts.	Ratio and Proportion	lengths, distance, capacity,
, , , , , , , , , , , , , , , , , , , ,	tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and	appropriate, including in contexts.	Ratio and Proportion	lengths, distance, capacity,
decimal places	tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning.	appropriate, including in contexts. round numbers in preparation for key stage 3,		lengths, distance, capacity,
decimal places	tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning. Learn that numbers are	appropriate, including in contexts. round numbers in preparation for key stage 3, Consolidate rounding decimal	Measurement (converting units):	lengths, distance, capacity,
decimal places Order and compare numbers including integers, decimals and negative	tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning. Learn that numbers are rounded for the purpose of	appropriate, including in contexts. round numbers in preparation for key stage 3, Consolidate rounding decimal fractions to the nearest whole		lengths, distance, capacity,
decimal places	tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning. Learn that numbers are rounded for the purpose of eliminating an unnecessary	appropriate, including in contexts. round numbers in preparation for key stage 3, Consolidate rounding decimal	Measurement (converting units):	lengths, distance, capacity,
decimal places Order and compare numbers including integers, decimals and negative	tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning. Learn that numbers are rounded for the purpose of eliminating an unnecessary level of detail. They must	appropriate, including in contexts. round numbers in preparation for key stage 3, Consolidate rounding decimal fractions to the nearest whole	Measurement (converting units):	lengths, distance, capacity,
decimal places Order and compare numbers including integers, decimals and negative	tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning. Learn that numbers are rounded for the purpose of eliminating an unnecessary level of detail. They must understand that rounding is a	appropriate, including in contexts. round numbers in preparation for key stage 3, Consolidate rounding decimal fractions to the nearest whole	Measurement (converting units):	lengths, distance, capacity,
decimal places Order and compare numbers including integers, decimals and negative	tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning. Learn that numbers are rounded for the purpose of eliminating an unnecessary level of detail. They must understand that rounding is a method of approximating, and	appropriate, including in contexts. round numbers in preparation for key stage 3, Consolidate rounding decimal fractions to the nearest whole	Measurement (converting units):	lengths, distance, capacity,
decimal places Order and compare numbers including integers, decimals and negative	tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning. Learn that numbers are rounded for the purpose of eliminating an unnecessary level of detail. They must understand that rounding is a method of approximating, and that rounded numbers can be	appropriate, including in contexts. round numbers in preparation for key stage 3, Consolidate rounding decimal fractions to the nearest whole	Measurement (converting units):	lengths, distance, capacity,
decimal places Order and compare numbers including integers, decimals and negative	tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning. Learn that numbers are rounded for the purpose of eliminating an unnecessary level of detail. They must understand that rounding is a method of approximating, and that rounded numbers can be used to give estimated values	appropriate, including in contexts. round numbers in preparation for key stage 3, Consolidate rounding decimal fractions to the nearest whole	Measurement (converting units):	lengths, distance, capacity,
decimal places Order and compare numbers including integers, decimals and negative	tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning. Learn that numbers are rounded for the purpose of eliminating an unnecessary level of detail. They must understand that rounding is a method of approximating, and that rounded numbers can be used to give estimated values including estimated answers	appropriate, including in contexts. round numbers in preparation for key stage 3, Consolidate rounding decimal fractions to the nearest whole	Measurement (converting units):	lengths, distance, capacity,
decimal places Order and compare numbers including integers, decimals and negative	tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning. Learn that numbers are rounded for the purpose of eliminating an unnecessary level of detail. They must understand that rounding is a method of approximating, and that rounded numbers can be used to give estimated values	appropriate, including in contexts. round numbers in preparation for key stage 3, Consolidate rounding decimal fractions to the nearest whole	Measurement (converting units):	lengths, distance, capacity,

		How to divide powers of 10,	Make connections between	
	· · · · · · · · · · · · · · · · · · ·		powers of 10, for example,	
			describing similarities and	
		and read scales/number lines	differences between the	
		with labelled intervals divided	values of the parts when 1	
		into 2, 4, 5 and 10 equal parts.	million, 1,000 and 1 are	
			divided into 4 equal parts.	
	Round decimals with three decimal	Children are taught how to	Order positive and negative	
		enlarge shapes to make them	integers, decimals, and	
	one or two decimal places	2 or 3 times as big etc. They	fractions; use the number line	
	·	need to be introduced to the	as a model for ordering of the	
		term "scale factor" as the	real numbers; use the	
		name for this process.	symbols =, ≠, <, >, ≤, ≥	
	Recall and use equivalences between	They need to be taught that	Draw models to help them	
	simple fractions, decimals and	, ,	solve certain types of problem	
		means that one shape is an		
		exact enlargement of the		
		other, not just they have some		
		common properties.		
	percentages, including in different	Children read, write and	Children can draw 2-D shapes	
	contexts	recognise all metric measures	on a grid to a given scale	
	Contexts	for length, mass and capacity.	factor and be able to use	
		They may need to be	vocabulary, such as, "Shape A	
		reminded the difference	is three times as big as shape	
		between capacity (the amount	a .	
		an object can contain) and	D .	
		volume (the amount actually in		
		an object).		
What is Evolution?		Convert in both directions e.g.	Children find scale factors	
		m to cm and cm to m. Using	when given similar shapes.	
		metre sticks and other scales	when given similar shapes.	
		will support this step. They will		
		need to understand the role of		
		zero as a place holder when		
		performing some calculations,		
		as questions will involve		
		varied numbers of decimal		
	Associate a fraction with division and	places. Use of pictorial	Children use multiplication	
	calculate decimal fraction equivalents	representations, such as bar	and division facts to calculate	
		models, to represent the		
		problem and help them decide	missing information and scale factors.	
		which operation to use.		
		which operation to use.		

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Find simple percentages of amounts	need to know that 5 miles is	Children will apply the skills		
	approximately equal to	they have learnt in the		
		previous steps to a wide		
		range of problems in different		
		contexts. They may need		
		support to see that different		
		situations are in fact		
		alternative uses of ratio.		
Calve problems which require ensurers	8 km. They should use this	Children develop their		-
Solve problems which require answers	5	•		
to be rounded to specified degrees of	fact to find approximate	estimation skills in context and		
	conversions from miles to km	decide when it is appropriate		
	and from km to miles.	to use different metric units of		
		measure.		
accuracy	They should be taught the	Skills of multiplying and		
	meaning of the symbol '≈' as	dividing by 10, 100 and 1,000		
	"is approximately equal to".	when converting between		
		units of length, mass and		
		capacity.		
Solve problems involving the	Children need to know and	Use and apply their		
		conversion skills to solve		
calculation of percentages	use the following facts:			4
Solve problems involving the relative	 1 foot is equal to 12 inches 	measurement problems in		
sizes of two quantities where missing		context.		
values can be found using integer				
multiplication/division facts				
Solve problems involving unequal	 1 pound is equal to 16 	Perform related conversions,		
sharing and grouping using knowledge	ounces	both within imperial measures		
of fractions and multiples		and between imperial and		
		metric.		
Solve problems involving similar	• 1 stone is equal to 14 pounds			
shapes where the scale factor is known	i stone is equal to 14 pounds			
or can be found				
	4 mellen is a musica O minte			-
Use, read and write standard units of	 1 gallon is equal to 8 pints 			
length, mass, volume and time using				
decimal notation to three decimal places				
				1
Convert between standard units of	 1 inch is approximately 2.5 			
length, mass, volume and time using	cm			
decimal notation to three decimal places				
Convert between miles and kilometres				1
	Spring Ter	m 2		
Recognise that shapes with the same		Find and draw rectilinear	Perimeter, Area and Volume	area, rectilinear, triangle angles,
areas can have different perimeters	the	shapes that have the same		vertically opposite, quadrilateral,
and vice versa		area.		volume, area, perimeter,
	1	4.04.	I	· · · · /

	and triangles	formula for area by linking this to counting squares. Writing and using the formulae for area and perimeter is a good opportunity to link back to the algebra block.	Children will need to physically annotate to avoid repetition when counting the squares.	Statistics	
	Recognise when it is possible to use formulae for area and volume of shapes	Children explore that shapes with the same area can have the same or different perimeters.	Children will begin to see the link between the area of a triangle and the area of a rectangle or square.		
	standard units, including cubic centimetres (cm3) and cubic metres	use their previous knowledge of approximating and estimating to work out the area of different triangles by counting.	Use the formula, base \times perpendicular height \div 2 to calculate the area of a variety of triangles where different side lengths are given and where more than one triangle make up a shape.		
		use their knowledge of finding the area of a rectangle to find the area of a right-angled triangle. They see that a right- angled triangle with the same length and perpendicular height as a rectangle will have an area half the size.	Investigate the link between the area of a rectangle and parallelogram by cutting a parallelogram so that it can be rearranged into a rectangle. This will help them understand why the formula to find the area of parallelograms works.		
	temperature	Using the link between the area of a rectangle and a triangle, children will learn and use the formula to calculate the area of a triangle.	Counting cubic units (1 cm ³) to find the volume of 3D shapes. They will then use cubes to build their own models and describe the volume of the models they make.		
		Use their knowledge of finding the area of a rectangle to find the area of a parallelogram.	Make the link between counting cubes and the formula ($\times \times$) for calculating the volume of cuboids. $l w h$		
How can I find my	problems	Understand that volume is the amount of solid space something takes up. They look at how volume is different to capacity, as capacity is related	They realise that the formula is the same as calculating the		
way around?		to the amount a container can hold.			

	0.1				
			area of the base and		
	problems using information presented	space occupied by a 3-D	multiplying this by the height.		
	by all different types of graph	object.			
	Calculate and interpret the mean as an	Children will build on their	Applying knowledge about		
	average	experience of interpreting data	data across the curriculum		
		in context from Year 5, using			
		their knowledge of scales to			
		read information accurately.			
		Children will build on their	Read data accurately,		
		experience of reading and	including more than one set of		
		interpreting data in order to	data on one graph		
		draw their own line graphs.			
		They need to be exposed to	Children read information		
		graphs that show more than	accurately, including where		
		one set of data. At this point,	more than one set of data is		
		children should be secure with	on the same graph		
		the terms x and y axis,			
		frequency and data			
		Learn how to find the mean by	Children decide on the most		
		sharing equally or using the	appropriate scales and		
		formula: Mean = Total ÷	intervals to use depending on		
		number of items. Once	the data they are representing.		
		children understand how to			
		calculate the mean of a simple			
		set of data, allow children time			
		to investigate missing data			
		when given the mean.			
		_			
			Once children can read, they		
			will interpret and draw lines		
			graphs they need to be able to		
			use line graphs to solve		
			problems. Children need to		
			use their knowledge of scales		
			to read information accurately.		
			They need to be exposed to		
			graphs that show more than		
			one set of data.		
			Children will apply their		
			addition and division skills to		
			calculate the mean average in		
			a variety of contexts		
		Current Ta			
		Summer Te	rm 1		

Drow 2 Dehence weing given	They will evaluate the	Children will illustrate or d	Company properties of above	angles vertically appeaits
Draw 2-Dshapes using given	They will explore the	Children will illustrate and	Geometry- properties of shapes	angles, vertically opposite, quadrilateral, volume, area,
dimensions and angles	relationship between the radius and the diameter and	name parts of circles, using the words radius, diameter,		perimeter, variable, formula
	recognise the diameter is	centre and circumference		
	5			
Illustrate and some parts of similar	twice the length of the radius.	confidently.	Trianalas	-
Illustrate and name parts of circles	Children will build on their	Children will apply their	Triangles	
including radius, diameter and	understanding of circles to	understanding of calculating		
circumference, knowing that the		percentages of amounts to		
diameter is twice the size of the radius	They will understand how to	interpret pie charts.		
	calculate fractions of amounts			
	to interpret simple pie charts.			
Recognise, build and describe simple 3-	Childron should understand	Construct a pie chart, using a	Polygons	-
D shapes including making nets		protractor to measure the	Folygons	
D shapes including making hets	represents and use this when	•		
		angles.		
Recognise angles where they meet at a	solving problems.	revisit measuring angles using	Angles	1
	of the pie chart totals 100 %.	a protractor from Year 5		
	Encourage children to	Children recap how to line up		
opposite and into missing angles	recognise fractions in order to	the protractor accurately, and		
	read the pie chart more	identify which side of the scale		
	efficiently	to read. Children read the	Quadrilatorala	-
	Understanding of angle sizes.		Quadrilaterals	
		measurement and practise		
		measuring angles given in		
		different orientations.	Nata	-
	Angles are also related to	Children draw lines correct to	Nets	
	compass points.	the nearest millimetre.		-
	Pupils will build on angles	They use a protractor to draw		
	around a point totalling 360	angles of a given size, and will		
	degrees to know that this			
	represents 100 % of the data			
	within a pie chart.			-
	They use a protractor to draw	need to be shown this new		
	angles of a given size: shown	skill.		
	this skill	Obildeen continue to de altra		4
	Children build on their	Children continue to develop		
	understanding of degrees in a	their estimation skills whilst		
	right angle and make the	drawing and measuring lines		
	connection that there are two	and angles.		
	right angles on a straight line			
	and four right angles around a			
	point.			-
	Children build on their	They use precise language to		
		describe the types of angles		
	and recognise two right angles	they are drawing.		
	are equivalent to a straight			
	line, or a straight line is a half			
	of a turn.			

	•	Children should make links to	
	protractor accurately, and	whole, quarter, half and three	
	identify which side of the scale	quarter turns and apply this in	
	to read. They link this to their	different contexts such as time	
	-	and on a compass.	
	Children read the	·	
	measurement and practise		
	measuring angles given in		
	different orientations. Angles		
	are also related to compass		
	•		
	points.		
	Children continue to develop	Once children are aware that	
		angles on a straight line add	
		to 180 degrees, they use this	
		to calculate missing angles on	
	continue to recognise,	straight lines	
	understand and use precise		
	language to describe the		
	types of angles they are		
	drawing.		
		Children recognise when they	
		should measure an angle and	
	right angle and make the	when they should calculate	
		the size of an angle from	
	right angles on a straight line	given facts	
	and four right angles around a	given laois	
	point.		
		Children apply their	
		understanding of angles in a	
	and recognise two right angles		
Why is a successful		straight line and angles	
		around a point to calculate	
brand important to		missing angles	
on Entronronour?	models may be used to		
an Entrepreneur?	represent missing angles		
	Children need to know that	They continue to apply their	
	there are 360 degrees in a full	understanding of angles on a	
	turn. This connects to their	straight line and around a	
	knowledge of right angles, full	point to calculate missing	
	turns and compass points.	angles.	
		-	
	They should also recognise	Children should apply their	
		understanding that angles at a	
		point on a straight line add up	
		to 180 degrees.	
	information to help them	to roo degrees.	
	calculate unknown angles.		
	calculate unknown angles.		

	-		
	0	Children use their	
		understanding of the	
		properties of triangles to	
	that they are equal and use	reason about angles.	
	practical examples to show		
	this.		
	Children practically explore	They should also use their	
	interior angles of a triangle	knowledge of angles on a	
	and understand that the	straight line, angles around a	
		point and vertically opposite	
	degrees.	angles.	
	Children are introduced to	Children use their knowledge	
		of properties of shape to	
		explore interior angles in	
		polygons. Children explore	
		how they can partition shapes	
		into triangles from a single	
		vertex to work out the sum of	
		the angles in polygons. They	
		use their knowledge of angles	
		on a straight line summing to	
		180° to calculate exterior	
		angles.	
		Children use their knowledge	
		of properties of shapes and	
		angles, as well as converting	
	specific types of triangle. They		
	think about using this	measure.	
	information to solve missing		
	angle problems.		
	Children use their knowledge	Children use their knowledge	
		of 2-D and 3-D shapes to	
		identify three-dimensional	
		shapes from their nets.	
	trapezium etc. They need to		
	learn that angles in any		
	quadrilateral add up to 360°. If		
	they are investigating by		
	measuring, there may be		
	accuracy errors which will be		
	a good discussion point.		
	Children need to have a		
	secure understanding of the		
	relationship between a		
	rectangle, a parallelogram, a		
	square and a rhombus		
		1	

		partition shapes into triangles	conventional markings to draw		
		from a single vertex to work	nets of shapes accurately.		
		out the sum of the angles in			
		polygons.			
		Children begin by drawing			
		shapes accurately on different			
		grids such as squared and			
		dotted paper. They then move			
		on to using a protractor on			
		plain paper.			
		Children need to recognise			
		that a net is a two-dimensional			
		figure that can be folded to			
		create a three-dimensional			
		shape. They use measuring			
		tools and conventional			
		markings to draw nets of			
		shapes accurately.			
	1	Summer Te			
	Consolidation and completion of ALL	Use and interpret algebraic		Algebra	variable, value, letters,
	PREVIOUS UNITS	notation	structure of arithmetic,		formulae, substitution, collect,
			including to formulate		terms
	-		mathematical relationships.		
	Generate and describe linear number	Learn to provide example			
	sequences	solutions by choosing a value			
		for one unknown and then			
What was the		calculating the other unknown.			
Ottoman Empire?		Understand and use standard			
		mathematical formulae;			
	Express missing number problems	rearrange formulae to change			
	algebraically	the subject.			
	Find pairs of numbers that satisfy an				
	equation with two unknowns				
	Enumerate possibilities of combinations				