## Finstall First School Overview of Mathematics Curriculum – EYFS

Voor	Autumn 1	Autumn 2	Spring 1	Spring 2	Summor 1	Summor 2
Tear	Autunni 1 Tonic: All About Mo	Autumn 2 Topic: Colobrations	Spring 1 Topic: Piratos	Spring 2 Topic: All About Spring	Summer 1	Summer 2
Pocontion	White Rose Just Like Mol	White Bose It's Me	White Bace Alive in F	White Bose Building O	White Bose Bhase 7: To	White Rose Bhase O
Reception	White Rose - Just Like Me	122/Light and Dark	/ Growing 6, 7, 8	and 10	20 and beyond	White Rose – Phase 5
		125/ Light and Dark	<u>/ Growing 0, 7, 8</u>	<u>unu 10</u>	<u>20 una beyona</u>	
	Match and Sort	24 Representing 123	1. Introducing 0 and	10 Introducing 9 & 10	Consolidating key skills	Consolidating key skills
	What is the same/different?	Identify different	comparing numbers to	Apply the counting	subitising counting	subitising counting
	(Colour shape pattern size	representations of 123	5	principles when counting	composition sorting and	composition sorting and
	object, material, texture)	objects. Match number	Recognise the numeral 0, use	to 9 & 10 forwards and	matching, comparing and	matching, comparing and
		names and numerals to	language more, fewer to	backwards, Represent 9 &	ordering.	ordering.
	😫 Diaaina	quantities. Subitise up to 3	compare numbers to 5	10 in different ways.	6	5
	Deeper/Reasoning	objects. Mark making 123.		subitise larger numbers	😆 Building numbers	😆 Doubling
	Reasoning for sorting,	,	Composition of 4 & 5	and explore composition.	beyond 10	Opportunities to build
	explanations in full sentences.	Comparing 123	Look at different ways of		Build and identify	doubles using real objects.
		As we count, know each	making 4 & 5, and remember	Comparing numbers	numbers to ten using	Ç ,
	😆 🛛 Compare Amounts	number is one more than	number bonds to 5.	to 10	Numicon, tens squares	😢 Sharing and grouping
	Use language of more and	the one before, one less as		Compare items using	and blocks. Show numbers	Recognise and make equal
	fewer to compare sets of	we count back. Understand	😢 Compare mass and	more, fewer, the same	are comprised of full tens	groups. Notice that
	objects within 5.	how 123 can be	capacity	number. Compare 2	and part of the next ten –	sometimes there are items
		represented in different	Use language related to mass	quantities and order 3 or	I full ten and 1, one full	left over when they share.
	😆 🛛 Compare Size, Mass and	ways.	and capacity, compare	more quantities.	ten and 2 etc.	
	Capacity		different containers and			😆 🛛 Even and Odd
	Compare and order objects	Composition of 123	weights of objects, use	🤨 Know number bonds	Counting patterns	Notice odd and even
	using language such as big,	All numbers are made up of	balancing scales to weigh	to 10	beyond 10	structure when sharing and
	little, small, long, short, tall,	smaller numbers. Look at	objects, use rice, sand and	Explore number bonds to	Count on and back beyond	grouping.
	heavy, light.	compositions of 123. E.g.	water to measure capacity of	10 using real objects in	10. Show representations	
	• · · ·	1+1, 1+2	different sized containers,	different contexts. Use	of repeating 1-9 patterns	Digging Deeper /
	Digging		compare using vocabulary	tens frames.	which clearly shows the	reasoning:
	Deeper/Reasoning	Digging	more, less, bigger, shorter,		full tens and the part of 10	Add more/ less, notice when
	Explain in full sentences, now	Deeper/ Reasoning	taller.	Digging Deeper/	e.g. 24= two full tens and	the number is odd or even.
	they knowcan you find	Explain in full sentences	1 679	reasoning:	4. Count on and back from	Make equal groups.
	1 Maka Simple Pattorns	there are. How can we	<b>b</b> , <b>7</b> , <b>8</b>	How do you know? How	unterent starting points.	1 Spatial reasoning (2)
	Copy continue and create	chock2	matching numeral to	many more is 6 than 52	1 Digging doopor	Poplicato simplo
	their own ABAB natterns using	CHECK:	quantity Make pairs of	How do you know? If I	reasonina:	constructions models real
	shapes colours sizes actions	2. Circles and Trianales	numbers combine two	have 7 how many more	Estimation Make	places Use positional
	and sounds	Recognise shapes on	groups to make 6, 7, 8	to make 10?	collections of different	language to describe where
		everyday items Build their			numbers	ohiects are
	😫 Diaaina	own circles and triangles.	😆 Lenath. heiaht and time	😆 3D shape		
	Deeper/Reasonina	Notice them in different	Compare height and length	name 3D shapes. look at		
	Can they spot the mistake in	orientations and sides of	using vocabulary e.g. long.	nets of 3D shapes and		
	the pattern? Explain how they	different lengths. Use the	short, tall. Look at days of	how they make a shape.		
	know.	correct language: curved,	the week, time it takes to	rotate and manipulate		
		straight, sides, corners.	complete tasks.	shapes to build bigger		
		Spatial Awareness		shapes	😢 🛛 Spatial reasoning (1)	😆 🛛 Digging Deeper /

 Begin to use positional		Complete jigsaws and	reasoning:
language to describe	2 Pattern	shape puzzles. Select and	Can you build a Talk about
position of items in relation	Copy, continue and create	rotate shapes to fill a	what they have made. Which
to other items. Build	patterns that are not just	given space. Match	do you like best? Why?
journeys, travel through	ABAB patterns.	arrangements of shapes,	Compare the model to the
them and explore them.	Digging Deeper/	use positional language to	picture. Could you make
Begin to represent journeys	Reasoning: Find which	describe where the shapes	different models using the
using drawings or maps.	pattern fits into the grid.	are in relation to one	same pieces?
	How do you know? Test	another. Complete picture	
🐸 Digging	patterns that will fit in	boards or tangrams.	<u>Phase 10 – On the move</u>
Deeper/Reasoning	different sized grids,		
Use full sentences to	Which ones fitted exactly?	🛂 🛛 Digging Deeper /	🐸 Deepening
explain where objects are in	How do you know?	reasoning:	understanding
relation to others.		Match shapes with	Give time and opportunities
	Consolidation of 9 &	coloured pictures to	to engage in problem solving
Four and Five:	10	pictures without outlines.	and develop critical thinking
Count on and back to 5.	Understand the	Design pictures using	skills link to familiar stories.
Subitise up to 5. Match	composition of numbers	pattern blocks and	
numeral to quantity. Use	to 10, recall number	templates. Which one	Patterns and
language more and fewer to	bonds to at least 5.	doesn't belong?	relationships
describe sets. When			Explore and investigate
counting know the final		Phase 8: First, Then, Now	relationships between
number they landed on			numbers and shapes. Copy
names the quantity of that		Adding more	and continue and create
set. Mark making to		Use real objects to add	patterns and symmetrical
represent numbers to 5.		more to a group. Count on	constructions.
Represent numbers up to 5		from a number.	
on a fives frame.			Spatial reasoning (4)
		Taking away	Make maps and plans. Draw
<sup>15</sup> Digging		Use real objects to see	simple linear maps, use
Deeper/Reasoning		that a quantity gets	positional language to
Understand the different		smaller when taking away.	describe the
ways to make compositions			position/location of things
of numbers up to 5.		Digging Deeper/	
		reasoning:	Digging Deeper /
One more and one loss:		show a number. Cover It	Proparo many and create
Iess:		How many new? How	routos Timod activitios
Count, subitise and		many have been added?	Toules. Timeu activities.
compare as they explore		Have been added?	
one more and one less. How		taken away?	
many if they add one, take		lakell away:	
away one? Use five frames.			
😕 Diqqinq		Spatial reasoning (2)	
		- Sputian reasoning (2)	

Deeper/Reasoning	Combine and separate
Order numbers 1 – 5. In full	snapes to make new
sentences, what can you tell	shapes. Investigate how
me about? E.g. 3 is one	many different ways a
more than 2.	given shape can be built
	using smaller shapes.
Shapes with 4 sides:	
Know that squares and	<b>1</b> Digging Deeper /
rectangles have straight	reasoning:
sides and four corners.	langrams, stars and
Recognise the shapes on	triangles. Build as many
everyday items. Build their	different versions of these
own squares and rectangles	shapes as you can.
in different sizes and	
orientations. Can they find	
any other shapes with 4	
sides?	
🐸 Digging	
Deeper/Reasoning	
What shapes can be made	
by combining squares,	
rectangles and triangles in	
different ways?	
😆 Night and Day:	
Talk about night and day	
and order key events in	
their daily routines. Use	
language E.g. night, day,	
morning, afternoon, before,	
after, today, tomorrow.	
Measure in simple ways.	
E.g. count the number of	
sleens to Christmas timers	
to measure durations	
2 Digging	
Deeper/Reasoning	
Practical activities that	
involve timing events.	

	Finstall First School Overview of Mathematics Curriculum – KS1							
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
Year 1	Begin to count in 2s up to 24 and back again.	Accurately count in steps of 2 up to 24 and back again. Begin to count in steps of 10 up to 120 and back again. Number and Place Value	Accurately count in steps of 2 to 24 and steps of 10 to 120 and back again. Begin to count in steps of 5 up to 60 and back again. Number and Place Value	Accurately and fluently count in steps of 2 and 10, forwards and backwards to the value of 12 steps. Accurately count in steps of 5 up to 60 and back again. Number and Place Value	Fluently and accurately count in steps of 2, 5 and 10, forwards and backwards to 12 steps.	Fluently and accurately count in steps of 2, 5 and 10, in any order, forwards or backwards to include missing numbers.		
	<ul> <li>10 estimate, count, read, write and compare numbers up to at least 20.</li> <li>10 count on and back in ones up to at least 20.</li> <li>13 To count in 2s up to 24 with even numbers and supporting doubles.</li> <li>14 To count in multiples of 10 in order up to 120.</li> </ul>	<ul> <li>10 estimate, count, read, write and compare numbers up to at least 30.</li> <li>10 compare numbers and say which is more, less, equal to, greater than up to at least 30.</li> <li>11 To count on and back in ones up to at least 30.</li> <li>12 To count in 2s up to 24 with even numbers and supporting doubles – consolidation.</li> <li>13 To count in multiples of 10 in order up to 120 – consolidation.</li> </ul>	<ul> <li>10 estimate, count, read, write and compare numbers up to at least 50.</li> <li>10 order number up to at least 10 in words.</li> <li>10 order numbers to 50.</li> <li>10 compare numbers and say which are more, less, equal to, greater than up to at least 50.</li> <li>10 count on and back in ones up to at least 50.</li> <li>10 count in 2s up to 40 with even numbers and supporting doubles.</li> <li>10 count in multiples of 10 in order up to 150.</li> <li>11 To count in 5s up to 50 and relate to counting in 10s.</li> </ul>	<ul> <li>10 estimate, count, read, write and compare numbers up to at least 80.</li> <li>10 partition numbers into tens and ones.</li> <li>10 To vrite numbers up to at least 10 in words.</li> <li>10 order numbers to 80.</li> <li>10 compare numbers and say which is more, less, equal to, greater than up to at least 80.</li> <li>11 To count on and back in ones up to at least 80.</li> <li>12 To count in 2s up to 40 with even numbers and supporting doubles – consolidation.</li> <li>13 To count in 5s up to 50 and relate to counting in 10s – consolidation.</li> </ul>	<ul> <li>10 estimate, count, read, write and compare numbers up to at least 100.</li> <li>10 partition numbers into tens and ones.</li> <li>10 order numbers up to at least 20 in words.</li> <li>10 order numbers to 100.</li> <li>10 compare numbers and say which is more, less, equal to, greater than to at least 100.</li> <li>10 count on and back in ones up to at least 100.</li> <li>11 To count in 2s, 5s and 10s in order with growing fluency.</li> </ul>	<ul> <li>10 estimate, count, read, write and compare numbers to at least 100 – consolidation.</li> <li>10 partition numbers into tens and ones consolidation.</li> <li>10 write numbers up to at least 20 in words consolidation.</li> <li>10 order numbers to 100 – consolidation.</li> <li>10 compare numbers and say which is more, less, equal to, greater than up to at least 100 – consolidation.</li> <li>10 count on and back in ones up to at least 100.</li> <li>10 count in 2s, 5s and 10s in order fluently.</li> </ul>		

Addition	Addition	Subtraction	Subtraction	Addition and Subtraction	Addition and Subtraction
<ul> <li>Addition</li> <li>To work out the number 1 more or 1 less up to 20.</li> <li>To read, write and interpret mathematical statements involving addition to 10.</li> <li>To represent and use number bonds within 10.</li> <li>To add numbers up to 10.</li> <li>To solve one-step problems that involve addition using concrete objects, pictorial representations and missing numbers up to 10.</li> <li>To recognise coins and find totals of sets of coins of small amounts.</li> </ul>	<ul> <li>Addition</li> <li>To work out the number 1 more or 1 less up to 30.</li> <li>To read, write and interpret mathematical statements involving addition up to 10 (consolidation) and begin to add up to 20.</li> <li>To represent and use number bonds within 10.</li> <li>To add numbers up to 10 and begin to add to 20.</li> <li>To double numbers up to 10.</li> <li>To solve one-step problems that involve addition using concrete objects, pictorial representations and missing numbers up to 10 – consolidation.</li> <li>To recognise coins and double amounts.</li> </ul>	<ul> <li>Subtraction</li> <li>To work out the number 1 more or 1 less up to 50.</li> <li>To read, write and interpret mathematical statements involving subtraction up to 10.</li> <li>To subtract numbers up to 10.</li> <li>To solve one-step problems that involve subtraction using concrete objects, pictorial representations and missing numbers up to 10.</li> <li>To know number bonds to 10 and related subtraction facts to 10.</li> </ul>	<ul> <li>Subtraction</li> <li>To work out the number 1 more or 1 less up to 80.</li> <li>To read, write &amp; interpret mathematical statements involving subtraction to 10 and begin to subtract to 20.</li> <li>To subtract numbers up to 10 and begin to subtract to 20.</li> <li>To solve one-step problems than involve subtraction using concrete objects, pictorial representations and missing numbers up to 10 consolidation.</li> <li>To know number bonds to 10 and related subtraction.</li> </ul>	<ul> <li>Addition and Subtraction</li> <li>To work out the number 1 more or 1 less up to 100.</li> <li>To read, write and interpret mathematical statements involving addition and subtraction up to 20.</li> <li>To add and subtract numbers up to 20.</li> <li>To solve one-step problems that involve addition or subtraction using concrete objects, pictorial representations and missing numbers up to 20.</li> <li>To know number bonds to 20 and related subtraction facts to 20.</li> </ul>	<ul> <li>Addition and Subtraction         <ul> <li>To work out the number 1 more or less up to 100 – consolidation.</li> <li>To read, write and interpret mathematical statements involving addition and subtraction up to 20 – consolidation.</li> <li>To add and subtract numbers up to 20.</li> <li>To solve one-step problems that involve addition and subtraction using concrete objects, pictorial representations and missing numbers up to 20 – consolidation.</li> </ul> </li> <li>To know number bonds to 20 and related subtraction.</li> </ul>
Measurement To compare, describe and solve practical problems for lengths and heights (for examples: long/short, longer/shorter, tall/short, double/half)	<ul> <li>Measurement</li> <li>To sequence events in chronological order using language – before, after, next, first, today, yesterday, tomorrow, morning, afternoon and evening.</li> <li>Recognise and use language relating to dates including days of the week, months and years.</li> </ul>	Geometry To recognise and name common 3D shapes including cuboids, cubes, pyramids and spheres and know their properties.	Measurement To tell the time to the hour and half past the hour and draw the hands on a clock to show these times.	Multiplication and Division To 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.	Multiplication and Division To solve one-step problems involving multiplication and division by calculating the answer user concrete objects, pictorial representations and arrays with the support of the teacher – consolidation.
Geometry To know the names of common 2D shapes and know their properties.	Fractions To recognise, find and name a half as 1 or 2 equal parts of an object and shape.	<ul> <li>Fractions</li> <li>To recognise, find and name a half as 1 or 2 equal parts of an object and shape – consolidation.</li> </ul>	Geometry To describe position, direction and movement including whole and half turns.	<ul> <li>Geometry</li> <li>To describe position, direction and movement including whole, ½, ¼ and ¾ turns.</li> </ul>	Fractions To recognise, find and name a half as 1 or 2 equal parts of an object, shape or quantity -consolidation.

				<u> </u>
	Measurement To recognise and know the value of different denominations of coins and notes.	<ul> <li>Fractions</li> <li>To recognise, find and name a half as 1 or 2 equal parts of a quantity.</li> <li>To recognise and name a quarter of a shape.</li> </ul>	<ul> <li>Fractions</li> <li>To recognise, find and name a half as 1 or 2 equal parts of an object, shape or quantity – consolidation.</li> <li>To recognise, find and name a quarter of a shape.</li> </ul>	To recognise, find and name a quarter of a shape or quantity consolidation.

Year 2	Fluently count in steps of 2, 5 and 10, in any order – forwards or backwards and to include missing numbers.	Accurately count in multiples of 5, up to 12 x 5, in any order and related division facts. Accurately count in multiples of 2, up to 12 x 2, in any order and related division facts.	Fluently and accurately recall multiples of 2 and 5, in any order, up to x12 and related division facts. Accurately recall multiples of 10 up to 12 x 10 and related division facts.	Fluently and accurately recall multiples of 2, 5 and 10 up to x12 and related division facts, in any order.	Fluently and accurately count in multiples of 2, 5 and 10 up to x12, including missing numbers and related division facts. Accurately count in steps of 3 – forwards and backwards.	Fluently and accurately count in steps of 3, forwards and backwards. Fluently and accurately count in multiples of 2, 5 and 10 up to x12, including missing numbers and related division facts. Consolidation of work over the year.
	<ul> <li>Number and Place Value</li> <li>Read and write two-digit and three-digit numbers in figures and words.</li> <li>Represent numbers in different ways, particularly on a number line.</li> <li>Recognise odd and even numbers.</li> <li>Count in steps of 2, 5 and 10.</li> <li>Find missing numbers.</li> <li>Recognise the value of each digit in a 2-digit number.</li> <li>Order and compare numbers up to 100 using the greater and less than signs. &lt;&gt;</li> <li>Begin to learn how to round 2-digit numbers to the nearest 10.</li> <li>Estimate the number of objects in a group up to 20.</li> <li>Recall multiples of 10 about and below a given number up to 120.</li> </ul>	<ul> <li>Measurement - Money</li> <li>13 Identify and name coins and notes and understand their values.</li> <li>13 Add together amounts of money.</li> <li>13 Recognise and use the f and p signs accurately.</li> <li>14 Combine £ and p to make and count different amounts.</li> <li>15 Make the same amount in different ways.</li> <li>16 Make the same amount in different ways.</li> <li>17 Make comparisons between 2 different amounts of money using &lt;, &gt; and =.</li> <li>18 Add money including: 2- digit and 2-digit, 2-digit and ones, 2-digit and tens and 3 single-digit.</li> <li>19 Find the difference between two amounts of money.</li> <li>19 Be able to find change.</li> <li>19 Solve 2-step problems involving money.</li> </ul>	<ul> <li>Number and Place Value</li> <li>Recognise the place value of each digit in 2-digit and 3-digit numbers (hundreds, tens and ones).</li> <li>Identify, represent and estimate numbers using different representations, continuing to use the number line.</li> <li>Use knowledge of place value to identify odd and even numbers instantly.</li> <li>Count fluently in steps of 2, 5 and 10.</li> <li>Make patterns using numbers.</li> <li>Fluently and accurately order and compare 2-digit numbers using the &lt;&gt; signs.</li> <li>Round 2-digit numbers to the nearest 10.</li> <li>Estimate the number of objects in a group up to 50.</li> </ul>	<ul> <li>Multiplication and Division</li> <li>With increased fluency, recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables.</li> <li>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs.</li> <li>Solve problems involving multiplication or division with one step.</li> <li>Show a full understanding of the commutative law.</li> <li>Begin to show that division of one number by another is not commutative.</li> <li>Solve problems involving x and ÷, using materials, arrays, repeated addition, metal methods and multiplication and division facts.</li> </ul>	<ul> <li>Statistics</li> <li>Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.</li> <li>Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.</li> <li>Ask and answer questions about totalling and comparing categorical data.</li> </ul>	<ul> <li>Multiplication and Division</li> <li>With accuracy and fluency, I can calculate mathematical statements for multiplication and division within the multiplication tables I know and write them using the x, ÷ and = sign.</li> <li>Solve word problems involving multiplication and division with more than one step.</li> <li>Fractions</li> <li>Recognise, find, name and write fractions <sup>1</sup>/<sub>3</sub>, ¼, <sup>2</sup>/<sub>4</sub> and ¾ of a length, shape, set of objects or quantity.</li> <li>Write simple fractions. For example, ½ of 6 = 3 and recognise the equivalence of <sup>2</sup>/<sub>4</sub> and ½.</li> </ul>

Addition and Subtraction	Multiplication and Division	Addition and Subtraction	Fractions	Addition and Subtraction	Measurement – Time
Derive and recall all	Begin to recall and use	Use knowledge of	Eind, represent and	Recall and use addition	1 Tell and write the time
addition and	multiplication facts for	number bonds to solve	make equal parts of a	and subtraction facts	to five minutes,
subtraction facts for	the 2, 5 and 10	problems.	whole (shapes and	to 20 fluently, and	including quarter
each number to at least	multiplication tables.	Solve additions by	groups of objects).	derive and use related	past/to the hour and
10, all pairs with totals	Count equal groups of 2,	making 10s/ adding to	Recognise, find, name	facts up to 100.	draw the hands on a
to 20 and all pairs of	5 and 10 and explore	the nearest 10.	and write fractions	Add and subtract	clock face to show
multiples of 10 with	this within 50 (linking to	Add 2-digit and 1-digit	<sup>1</sup> / <sub>3</sub> , ¼, <sup>2</sup> / <sub>4</sub> and ¾ of a	numbers using	these times.
totals up to 100.	real-life contexts).	and two 2-digit	length, shape, set of	concrete objects,	Know the number of
🛂 Solve problems	Represent and make	numbers both without	objects or quantity	pictorial	minutes in an hour and
involving addition in	equal groups in various	and with crossing 10.	and demonstrate	representations, and	the number of hours in
contexts of numbers.	ways such as arrays,	Subtract 2-digit and 1-	understanding that all	mentally, including:	a day. <b>Recap</b>
Use knowledge of	repeated addition,	digit and two 2-digit	parts must be equal	<ul> <li>A 2-digit number</li> </ul>	Compare and sequence
number facts and	number sentences and	numbers both without	parts of the whole.	and ones	intervals of time.
operations to estimate	bar models.	and with crossing 10.	😆 Write simple	<ul> <li>A 2-digit number</li> </ul>	
and check answers to	Show that multiplication	Show that addition of	fractions. E.g. ½ of 6 =	and tens	Geometry
calculations.	of two number can be	two numbers can be	3.	<ul> <li>Two 2-digit</li> </ul>	Order and arrange
😃 Understand that	done in any order	done in any order		numbers	combinations of
subtraction is the	(commutative).	(commutative) and	Measurement – Mass,	<ul> <li>Three, 1-digit</li> </ul>	mathematical objects in
inverse of addition and	Build and draw arrays.	subtraction of one	Capacity and Temperature	numbers.	patterns and
vice versa.		number from another	Choose and use	😆 Develop a full	sequences.
🐸 🛛 Add and subtract a 1-		cannot.	appropriate standard	understanding that the	Use mathematical
digit number from a 2-		Solve problems	units to estimate and	addition of two	vocabulary to describe
digit number without		involving addition and	measure mass (kg/g),	numbers can be done	position, direction,
crossing 10s and		subtraction in contexts	temperature (°C) and	in any order	movement, including
add/subtract 10s from a		of measures, pounds	capacity (I/mI) to the	(commutative) and	movement in a straight
given 2-digit number.		and pence, applying	nearest appropriate	subtraction of one	line and distinguishing
🐸 🛛 Know 10 more or 10		and increasing	unit, using scales,	number from another	between rotation as a
less than a given		knowledge of mental	thermometers and	cannot.	turn and in terms of
number.		and written methods.	measuring vessels.	Solve problems with	right angles for quarter,
			Read scales in	addition and	half and three-quarter
			divisions of ones,	subtraction using	turns (clockwise and
			twos, fives and tens.	concrete objects and	anti-clockwise).
			Read scales where not	pictorial	
			all numbers on the	representations,	
			scale are given and	including those	
			estimate points in	involving numbers,	
			between.	quantities and	
			Use their knowledge	measures; applying	
			of the four operations	their increasing	
			to solve one-step and	knowledge of mental	
			two-step problems	and written methods	
			relating to weight,	to problems with more	
			capacity and	than one step.	
			temperature.	Recognise and use the	
				inverse relationship	
				between addition and	
				subtraction and use	
				this to check	

<ul> <li>Geometry</li> <li>Recap 3D shapes from Year 1.</li> <li>Compare and sort common 2D shapes.</li> <li>Count the sides on 2D shapes.</li> <li>Count the vertices on 2D shapes.</li> <li>Draw common 2D shapes.</li> <li>Identify one line of symmetry on common 2D shapes.</li> <li>Identify one line of symmetry on common 2D shapes.</li> <li>Make patterns with 2D shapes.</li> <li>Count the faces on 3D shapes and identify the 2D faces on a 3D shape.</li> </ul>	<ul> <li>Measurement - Length</li> <li>Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm)</li> <li>Measure lines with a ruler to the nearest cm.</li> <li>Use a metre stick (measuring to the nearest 10 cm).</li> <li>Compare and order lengths/heights using &lt; &gt; and =.</li> <li>Use their knowledge of the four operations to solve one-step and two- step problems relating to length.</li> </ul>	<ul> <li>Geometry</li> <li>Begin to identify and describe the properties of 3D shapes, including the number of edges, vertices and faces.</li> <li>Compare and sort common 3D shapes.</li> <li>Make patterns with 3D shapes.</li> </ul>	<ul> <li>calculations and solve missing number problems.</li> <li>Multiplication and Division</li> <li>Calculate mathematical statements for multiplication and division within the multiplication tables they know and write them using the x, ÷ and = sign.</li> <li>Solve problems involving multiplication and division, using materials, arrays, repeated addition, metal methods and multiplication and division facts, including problems in context.</li> <li>Show a full understanding that the multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.</li> </ul>	
		<ul> <li>Measurement – Time</li> <li>Understand the meaning of hours and days.</li> <li>Remember the number of minutes in an hour and the number of hours in a day.</li> <li>Read and write O'clock, half past, quarter past and to times.</li> <li>Tell the time to the nearest 5 minutes.</li> </ul>		

	Finstall First School Overview of Mathematics Curriculum – KS2						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Year 3	Fluently and accurately recall multiples of 2, 5 and 10 (revision of Year 2). Accurately count in multiples of 3, in any order, up to 12 x 3.	Fluently and accurately recall multiples of 3 up to 12 x 3, in any order and related division facts. Accurately count in multiples of 4, in any order, up to 12 x 4.	Fluently and accurately recall multiples of 4 up to 12 x 4, in any order and related division facts. Accurately count in multiples of 8, to 12 x 8, in any order.	Fluently and accurately recall multiples of 3 and 4 up to 12 x 3 and 12 x 4, in any order and related division facts. Fluently and accurately recall multiples of 8, to 12 x 8, in any order and corresponding division facts.	Fluently and accurately recall multiples of 3, 4 and 8, in any order, including missing numbers and related division facts.	Fluently and accurately recall multiples of 3, 4 and 8, in any order, including missing numbers and related division facts. <b>Consolidation of the</b> <b>work over the year.</b>	
	<ul> <li>Number and Place Value</li> <li>Recognise the place value of each digit in a three-digit number (hundreds, tens, ones)</li> <li>Read and write numbers up to 1000 in numerals.</li> <li>Begin to read and write numbers up to 1000 in words.</li> </ul>	<ul> <li>Number and Place Value</li> <li>Find 10 or 100 more or less than a given number.</li> <li>Accurately and fluently, read and write numbers up to 1000 in words.</li> </ul>	Multiplication and Division Accurately and with some fluency, write and calculate mathematical statements for multiplication and begin to use division, using the multiplication tables that he/she knows including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.	<ul> <li>Number and Place Value</li> <li>Begin to count from 0 in multiples of 50 and 100.</li> <li>Estimate numbers using different representations, including the number line.</li> </ul>	<ul> <li>Place Value</li> <li>Fluently and accurately count from 0 in multiples of 50 and 100.</li> <li>Solve number problems and practical problems involving these ideas.</li> <li>Addition and Subtraction</li> <li>Solve problems, including:         <ul> <li>Missing number problems</li> </ul> </li> </ul>	<ul> <li>Measurement - Time</li> <li>Accurately and fluently tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24- hour clocks.</li> <li>Estimate and read time with increasing accuracy to the nearest minute.</li> <li>Record and compare time in terms of seconds, minutes and hours.</li> <li>Compare durations of gypots (E.g. to</li> </ul>	
	<ul> <li>Addition and Subtraction</li> <li>Add and subtract mentally, including: <ul> <li>A 3-digit number and ones.</li> <li>A 3-digit number and tens.</li> <li>A three-digit number and hundreds.</li> </ul> </li> <li>Add numbers with up to three digits, using formal written methods of</li> </ul>	Multiplication Begin to write and calculate mathematical statements <u>for</u> <u>multiplication</u> and division using the multiplication tables that he/she knows including for two-digit numbers times one- digit numbers. using	<ul> <li>Fractions</li> <li>Recognise, find and write fractions of a discrete set of objects; unit fractions and non-unit fractions with small denominators.</li> <li>Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.</li> </ul>	<ul> <li>Addition and Subtraction</li> <li>Add and subtract numbers with up to three digits using the formal method of columnar addition and subtraction.</li> <li>Estimate the answer to a calculation and use inverse operations to check answers.</li> </ul>	<ul> <li>Using number facts.</li> <li>Place value</li> <li>More complex addition and subtraction.</li> <li>Measurement</li> <li>Measure the perimeter of simple 2D shapes.</li> </ul>	<ul> <li>Events. (E.g. to calculate the time taken by particular events or tasks)</li> <li>Fractions</li> <li>Compare and order unit fractions, and fractions with the same denominators.</li> <li>Solve fraction problems.</li> </ul>	

<ul> <li>columnar addition. At this stage, children will be focussing on using the expanded method.</li> <li>Measurement</li> <li>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (I/mI)</li> <li>Geometry – 2D Shape</li> <li>Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line. (Revision of Band 2)</li> </ul>	<ul> <li>mental and progressing to formal written methods. Accessing through the use of grid method.</li> <li>Measurement – Time</li> <li>Begin to use vocabulary such as o'clock, am/pm, morning, afternoon and midnight.</li> <li>Begin to know the number of seconds in a minute, and the number of days in each month, year and leap year.</li> <li>Tell and write the time from an analogue clock, including: o 12-hour clock</li> </ul>	<ul> <li>Recognise and show, using diagrams, equivalent fractions with small denominators.</li> <li>Measurement</li> <li>Tell and write the time from an analogue clock, including:         <ul> <li>Using Roman numerals from I to XII.</li> <li>12-hour and 24-hour clocks.</li> </ul> </li> </ul>	<ul> <li>Fractions</li> <li>Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.</li> <li>Record <sup>1</sup>/<sub>10</sub> as 0.1, <sup>3</sup>/<sub>10</sub> as 0.3 etc.</li> </ul>	<ul> <li>Geometry</li> <li>Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.</li> <li>Recognise angles as a property of shape or a description of turn.</li> <li>Identify right angles and identify whether other angles are greater or less than a right angle.</li> <li>Recognise that two right angles make a half turn, three make three quarters of a turn and four a complete turn.</li> </ul>	<ul> <li>Multiplication and Division</li> <li>With increased accuracy and fluency. write and calculate mathematical statements for multiplication and division using the multiplication tables that he/she knows including for two-digit numbers times one- digit numbers, using mental and progressing to formal written methods.</li> <li>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence</li> </ul>
	Number and Place Value Identify and represent numbers using different representations, including using the number line.	<ul> <li>Geometry – 3D Shape</li> <li>Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them.</li> <li>Statistics</li> <li>Interpret and present data using bar charts, pictograms and tables.</li> </ul>	Measurement Add and subtract amounts of money to give change, using both £ and p in practical contexts.	Statistics Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables.	problems in which n objects are connected to m objects.

Year 4	Fluently and accurately recall multiples of 3, 4 and 8. (revision of Year 3) Accurately count in multiples of 6, in any order, up to 12 x 6.	Fluently and accurately recall multiples of 6, in any order, including missing numbers and related division facts. Accurately count in multiples of 7, in any order, up to 12 x 7.	Fluently and accurately recall multiples of 6 and 7, in any order, including missing numbers and related division facts. Accurately count in multiples of 9, to 12 x 9, in any order.	Fluently and accurately count in multiples of 9, to 12 x 9, in any order, including missing numbers and related division facts. Accurately count in multiples of 11, in any order and related division facts.	Fluently and accurately count in multiples of 11, in any order and related division facts. Fluently and accurately count in multiples of 12 (children should know through learning other tables), in any order and related division facts.	Fluently and accurately recall multiplication facts for all the tables up to 12 x 12, including missing numbers and related division facts. Consolidation of the work over the year. MTC – children to take test. Intervention following test.
	<ul> <li>Number and Place Value</li> <li>Begin to count in multiples of 25 and 1000.</li> <li>Recognise the place value of each digit in a four-digit number. <ul> <li>Children will revise the place value of 3- digit numbers.</li> </ul> </li> <li>Identify, represent and estimate numbers using different representations. <ul> <li>Partitioning using standard and non- standard methods</li> <li>Bar models</li> <li>Part-whole models</li> <li>Base 10 equipment</li> <li>Place value counters</li> </ul> </li> <li>Order and compare numbers beyond 1000.</li> <li>Find 1000 more or less than a given number.</li> <li>Count backwards through zero to include negative numbers.</li> </ul>	<ul> <li>Number and Place Value</li> <li>Accurately count in multiples of 25 and 1000.</li> <li>Read Roman numerals to 100 (I to C) and know that over time, the numeral system has changed to include the concept of zero and place value.</li> </ul>	<ul> <li>Number and Place Value</li> <li>With increasing accuracy and fluency, count in multiples of 25 and 1000.</li> <li>Identify, represent and estimate numbers using different representations.</li> <li>Focus on representing numbers on a number line to 10, 000</li> <li>Estimating numbers on a number line</li> </ul>	<ul> <li>Number and Place Value</li> <li>Confidently count, forwards and backwards, in multiples of 25 and 1000.</li> <li>Rounding numbers to the nearest 10.</li> <li>Rounding numbers to the nearest 100.</li> <li>Rounding numbers to the nearest 1000.</li> </ul>	<ul> <li>Number and Place Value</li> <li>Solve number and practical problems involving the following concepts:         <ul> <li>Recognise the place value of each digit in a four-digit number.</li> <li>Identify, represent and estimate numbers using different representations.</li> <li>Order and compare numbers beyond 1000.</li> <li>Roman numerals to 100.</li> </ul> </li> </ul>	<ul> <li>Number and Place Value</li> <li>Solve number and practical problems involving the following concepts with increasingly large positive numbers.</li> <li>Rounding any number to the nearest 10, 100 and 1000.</li> <li>Negative numbers in context.</li> <li>Additional work to be planned for to close any gaps in the children's learning.</li> </ul>
	<ul> <li>Addition and Subtraction</li> <li>Begin to add and subtract numbers with up to 4- digits using the formal written methods of columnar addition and subtraction, where appropriate.</li> </ul>				Addition and Subtraction Fluently add and subtract numbers with up to 4-digits using the formal written methods of columnar addition and subtraction, where appropriate.	<ul> <li>Multiplication and Division</li> <li>Solve problems involving multiplication.</li> <li>Consolidation of a written method for division.</li> <li>Additional work to be planned for to close any gaps in the children's learning.</li> </ul>

	`comotru	Multiplication and Division	Addition and Subtraction	Multiplication and	1ª Solvo addition and	Goometry
1	Identify acute and obtuse	Use place value,	Uth increasing	Division	subtraction two-step	Describe movements
	angles and compare and	known and derived	fluency, add and	Recognise and use	problems in contexts,	between positions as
	order angles up to two	facts to multiply and	subtract numbers with	factor pairs and	deciding which	translations of a given
	right-angles by size.	divide mentally,	up to 4-digits using the	commutativity in	operations and	unit to the left/right
2	Compare and classify	including multiplying	formal written	mental calculations.	methods to use and	and up/down.
	geometric shapes,	by 0 and 1; dividing by	methods of columnar	With increasing	why.	
	including quadrilaterals	1; multiplying	addition and	accuracy, multiply		
	and triangles, based on	together three	subtraction.	two-digit and three-		
	their properties.	numbers.	Estimate and use	digit numbers by a	Fractions	Fractions
		Begin to multiply two-	Inverse operations to	one-digit number	Count up and down in	Solve problems
		algit and three-digit	check answers to a	using formal written	that hundrodths arise	harder fractions to
		digit number using	missing digit problems	Divide two and three-	when dividing an	
		formal written layout	to reinforce this skill	digit numbers by a 1-	object by 100 and	and fractions to divide
				digit number.	dividing tenths by ten.	quantities, including
				including leaving	Find the effect of	non-unit fractions
				remainders.	dividing a one- or two-	where the answer is a
S	tatistics	Fractions	Fractions	😫 🛛 Multiplying and	digit number by 10 and	whole number.
2	Interpret and present	Find fractions of	😆 🛛 Add and subtract	dividing by 10 and	100, identifying the	Solve simple money and
	discrete data using	amounts (include	fractions with the same	100.	value of the digits in	measure problems
	appropriate geographical	money and measure).	denominator.		the answer as ones,	involving fractions and
	methods, including bar	Find unit fractions of	<ul> <li>Add two or</li> </ul>	Measurement	tenths or hundredths.	decimals to two
	charts and time graphs.	amounts before	more	Convert between	Compare numbers	decimal places.
	<ul> <li>This term focus on using tally sharts</li> </ul>	fractions of amounts	fractions.	different units of	of desimal places up to	
	nictograms and har	(Year 3 revision)	6 Subtract two	kilometre to metre:	two decimal places up to	
	charts	Becognise and show	○ Subtract from	hour to minute	Bound decimals with	
		using diagrams.	whole	Estimate, compare	one decimal place to	
		families of common	amounts.	and calculated	the nearest whole	
		equivalent fractions.	<ul> <li>Fractions</li> </ul>	different measures,	number.	
		Recognise and write	greater than	including money in		
		decimal equivalents to	1.	pounds and pence.	Measurement – Money	
		$\frac{1}{4}$ , $\frac{1}{2}$ and $\frac{3}{4}$ .	Continue to learn the		Convert between	
			relationship between		pounds and pence.	
			74, 72 and 74 and their			
			decimals		1 Use rounding to	
					estimate with money	
					Use money with the	
		Measurement	Measurement	Geometry	four operations.	
		Measure and calculate	Read and write time	Describe positions on		
		the perimeter of a	using analogue and	a 2D grid as		
		rectilinear figure in cm	digital 12 and 24 hour	coordinates in the		
		and m.	CIOCKS.	first quadrant.		
		rectilinear shapes by	involving converting	and draw sides to		
		counting in squares	from hours to minutes.	complete a given		
		counting in squares.	minutes to seconds.	polygon.		
				Po.700		

				Statistics Interpret and present continuous data using appropriate geographical methods, including line graphs and comparative line graphs.		<ul> <li>Measurement - Time</li> <li>Read, write and convert time between analogue and digital 12 and 24-hour clocks.</li> <li>Solve problems involving converting years to months; weeks to days.</li> <li>Geometry</li> <li>Complete a symmetrical figure with respect to a specific line of symmetry.</li> <li>Identify lines of symmetry in 2D shapes presented in different</li> </ul>				
						orientations.				
	Throughout teaching in school:									
19 19 19 19	<ul> <li>Weekly number bonds tests         <ul> <li>This will be focussed on all children in KS1 and children who need further support in KS2</li> </ul> </li> <li>Weekly multiplication tables tests         <ul> <li>From Year 2 upwards, following the Multiplication Tables Planning Document but also taking into consideration the individual needs of the children. This is indicated on the Curriculum Map with blue objectives.</li> </ul> </li> <li>Weekly practice of Multiplication Test Check         <ul> <li>Year 4 only</li> <li>Use of Times Table Bock Stars to learn tables in school and at home.</li> </ul> </li> </ul>									
	<ul> <li>Ose of times table kock stars to learn tables in school and at nome.</li> <li>From Year 2 upwards.</li> </ul>									
1	Chanting of multiplication tables and counting in steps of differing amounts. Chanting of Key Instant Basely Facts (KIRES)									
2	Use of I-Pads to reinforce learning and play games									
2	Use of manipulatives to aid teaching									
	Five-A-Day to recall learnt facts and knowledge									