



Mathematics Long Term Plan

Greenfinch 2021-2022

Autumn

	Small Steps
Getting to know you 3 weeks	

	National Curriculum Objectives	Small Steps
Number: Place Value (within 10) 4 weeks	<ul style="list-style-type: none">• Count to ten, forwards and backwards, beginning with 0 or 1, or from any given number.• Count, read and write numbers to 10 in numerals and words.• Given a number, identify one more or one less.• Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least.	<ul style="list-style-type: none">• Sort objects• Count objects• Represent objects• Count, read and write forwards from any number 0 to 10• Count, read and writing backwards from any number 0 to 10• Count one more• Count one less• One to one correspondence to start to compare groups• Compare groups using language such as equal, more/greater, less/fewer• Introduce = , > and < symbols• Compare numbers• Order groups of objects• Order numbers• Ordinal numbers (1st, 2nd, 3rd)

			<ul style="list-style-type: none"> The number line 	
Just like me! 3 weeks	<ul style="list-style-type: none"> Match and sort Compare amounts Compare size, mass and capacity Exploring patterns 	Number: Addition and Subtraction (within 10) 5 weeks	<ul style="list-style-type: none"> Represent and use number bonds and related subtraction facts within 10 Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs. Add and subtract one digit numbers to 10, including zero. Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems. 	<ul style="list-style-type: none"> Part whole model Addition symbol Fact families – Addition facts Find number bonds for numbers within 10 Systematic methods for number bonds within 10 Number bonds to 10 Compare number bonds Addition: Adding together Addition: Adding more Finding a part Subtraction: Taking away, how many left? Crossing out Subtraction: Taking away, how many left? Introducing the subtraction symbol Subtraction: Finding a part, breaking apart Fact families – The 8 facts Subtraction: Counting back Subtraction: Finding the difference Comparing addition and subtraction statements $a + b > c$ Comparing addition and subtraction statements $a + b > c + d$
It's me 1,2,3! 3 weeks	<ul style="list-style-type: none"> Representing 1, 2 & 3 Comparing 1, 2 & 3 Composition of 1, 2 & 3 Circles and triangles Positional language 	Geometry: Shape 1 week	<ul style="list-style-type: none"> Recognise and name common 2-D shapes, including: (for example, rectangles (including squares), circles and triangles) Recognise and name common 3-D shapes, including: (for example, cuboids (including cubes), pyramids and spheres.) 	<ul style="list-style-type: none"> Recognise and name 3D shapes Sort 3D shapes Recognise and name 2D shapes Sort 2D shapes Patterns with 3D and 2D shapes

<p>Light and Dark</p> <p>3 weeks</p>	<ul style="list-style-type: none"> • Representing numbers to 5 • One more and less • Shapes with 4 sides • Time 	<p>Number: Place Value (within 20)</p> <p>2 weeks</p>	<ul style="list-style-type: none"> • Count to twenty, forwards and backwards, beginning with 0 or 1, from any given number. • Count, read and write numbers to 20 in numerals and words. • Given a number, identify one more or one less. • Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least. 	<ul style="list-style-type: none"> • Count forwards and backwards and write numbers to 20 in numerals and words • Numbers from 11 to 20 • Tens and ones • Count one more and one less • Compare groups of objects • Compare numbers • Order groups of objects • Order numbers
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Spring

	Small Steps		National Curriculum Objectives	Small Steps
Alive in 5! 3 weeks	<ul style="list-style-type: none"> Introducing zero Comparing numbers to 5 Composition of 4 & 5 Compare mass (2) Compare capacity (2) 	Number: Addition and Subtraction (within 20) 3 weeks	<ul style="list-style-type: none"> Represent and use number bonds and related subtraction facts within 20 Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs. Add and subtract one-digit and two-digit numbers to 20, including zero. Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$ 	<ul style="list-style-type: none"> Add by counting on Find & make number bonds Add by making 10 Subtraction – Not crossing 10 Subtraction – Crossing 10 (1) Subtraction – Crossing 10 (2) Related Facts Compare Number Sentences
Growing 6, 7, 8 3 weeks	<ul style="list-style-type: none"> 6, 7 & 8 Making pairs Combining 2 groups Length & height Time 	Number: Place Value (within 50) 3 weeks	<ul style="list-style-type: none"> Count to 50 forwards and backwards, beginning with 0 or 1, or from any number. Count, read and write numbers to 50 in numerals. Given a number, identify one more or one less. Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least. Count in multiples of twos, fives and tens. 	<ul style="list-style-type: none"> Numbers to 50 Tens and ones Represent numbers to 50 One more one less Compare objects within 50 Compare numbers within 50 Order numbers within 50 Count in 2s Count in 5s
Building 9 & 10 3 weeks	<ul style="list-style-type: none"> 9 & 10 Comparing numbers to 10 	Measurement: Length and Height	<ul style="list-style-type: none"> Measure and begin to record lengths and heights. 	<ul style="list-style-type: none"> Compare lengths and heights Measure length (1) Measure length (2)

	<ul style="list-style-type: none"> • Bonds to 10 • 3D shape • Pattern (2) 	
Consolidation 3 weeks		

Summer

	Small Steps
To 20 and Beyond 3 weeks	<ul style="list-style-type: none"> • Building numbers beyond 10 • Counting patterns beyond 10 • Spatial reasoning (1) • Match, rotate, manipulate
First, then, now 3 weeks	<ul style="list-style-type: none"> • Adding more • Taking away • Spatial reasoning (2) • Compose and decompose

	National Curriculum Objectives	Small Steps
Number: Multiplication and Division 3 weeks	<ul style="list-style-type: none"> • Count in multiples of twos, fives and tens. • 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. 	<ul style="list-style-type: none"> • Count in 10s • Make equal groups • Add equal groups • Make arrays • Make doubles • Make equal groups - grouping • Make equal groups - sharing
Number: Fractions 2 weeks	<ul style="list-style-type: none"> • Recognise, find and name a half as one of two equal parts of an object, shape or quantity. • Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity. • Compare, describe and solve practical problems for: lengths 	<ul style="list-style-type: none"> • Halving shapes or objects • Halving a quantity • Find a quarter of a shape or object • Find a quarter of a quantity

Find my Pattern 3 weeks	<ul style="list-style-type: none"> • Doubling • Sharing and grouping • Even and odd • Spatial reasoning (3) • Visualise and build 	<p>and heights (for example, long/short, longer/shorter, tall/short, double/half)</p> <ul style="list-style-type: none"> • Compare, describe and solve practical problems for: mass/weight [for example, heavy/light, heavier than, lighter than]; capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] 	
On the Move 3 weeks	<ul style="list-style-type: none"> • Deepening understanding • Patterns and relationships • Spatial reasoning (4) • Mapping 	Geometry: Position and Direction 1 week <ul style="list-style-type: none"> • Describe position, direction and movement, including whole, half, quarter and three quarter turns 	<ul style="list-style-type: none"> • Describe turns • Describe Position (1) • Describe Position (2)
		Number: Place Value (within 100) 2 weeks <ul style="list-style-type: none"> • Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number. • Count, read and write numbers to 100 in numerals. • Given a number, identify one more and one less. • Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than, most, least 	<ul style="list-style-type: none"> • Counting to 100 • Partitioning numbers • Comparing numbers (1) • Comparing numbers (2) • Ordering numbers • One more, one less
		Measurement: Money 1 week <ul style="list-style-type: none"> • Recognise and know the value of different denominations of coins and notes. 	<ul style="list-style-type: none"> • Recognising coins • Recognising notes • Counting in coins
		Measurement: Time 2 weeks <ul style="list-style-type: none"> • Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening. 	<ul style="list-style-type: none"> • Before and after • Dates • Time to the hour • Time to the half hour • Writing time

		<ul style="list-style-type: none"> • Recognise and use language relating to dates, including days of the week, weeks, months and years. • Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times. • Compare, describe and solve practical problems for time [for example, quicker, slower, earlier, later] • Measure and begin to record time (hours, minutes, seconds) 	<ul style="list-style-type: none"> • Comparing time
		Consolidation 1 week	