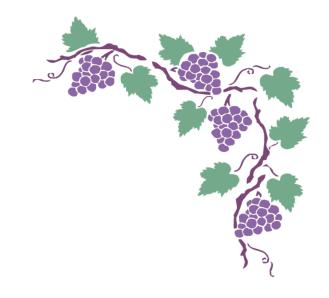




Mathematics Long Term Plan

Greenfinch 2023-2024



Autumn

	Small Steps
Getting to know you	
2 weeks	
Match, sort and	Match objects
compare	Match pictures and
	objects
2 weeks	Identify a set
	 Sort objects to a type
	Explore sorting
	techniques
	 Create sorting rules
	Compare amounts

	National Curriculum Objectives	Small Steps
Number: Place Value (within 10) 5 weeks	 National Curriculum Objectives 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. 	 Small Steps Sort objects Count objects from a larger group Represent objects Recognise numbers as words Count on from any number 1 more Count backwards within 10 1 less Compare groups by matching Fewer, more, same Less than, greater than, equal to
		Compare numbersOrder objects and numbersThe number line

Talk about measure	Compare size
and patterns	Compare mass
	Compare capacity
2 weeks	 Explore simple patterns
	Copy and continue
	simple patterns
	Create simple patterns
It's me 1, 2, 3	• Find 1, 2 and 3
	• Subitise 1, 2 and 3
2 weeks	• Represent 1, 2 and 3
	• 1 more
	• 1 less
	• Composition of 1, 2 and
	3
Circles and triangles	Identify and name circles
	and triangles
1 week	Compare circles and
	triangles
	Shapes in the
	environment
	 Describe position
1, 2, 3, 4, 5	• Find 4 and 5
	Subitise 4 and 5
2 weeks	Represent 4 and 5
	• 1 more
	• 1 less
	• Composition of 4 and 5
	• Composition of 1 - 5
Shapes with 4 sides	Identify and name
	shapes with 4 sides
1 week	• Combine shapes with 4
	sides
	Shapes in the
	environment
	My day and night

Number: Addition and Subtraction (within 10) 5 weeks	 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. Introduce parts and wholes Part-whole model Write number sentences Fact families – addition facts Number bonds within 10 Systematic number bonds within 10 Addition - add together Addition problems Find a part Subtraction – find a part Fact families – the eight facts Subtraction - take away/cross out (How many left?) Take away (How many left?) Subtraction on a number line Add or subtract 1 or 2
Geometry: Shape 1 week	 Recognise and name common 2-D shapes, including: (for example, rectangles (including squares), circles and triangles) Recognise and name including squares, circles and triangles) Recognise and name including shapes Sort 3-D shapes Recognise and name including shapes Sort 2-D shapes Patterns with 2-D and 3-D shapes
Consolidation 1 week	

Spring

	Small Steps
Alive in 5	Introduce zero
	• Find 0 to 5
2 weeks	• Subitise 0 to 5
	 Represent 0 to 5
	• 1 more
	• 1 less
	 Composition
	Conceptual subitising to5
Mass and capacity	Compare mass
	 Find a balance
1 week	 Explore capacity
	 Compare capacity
Growing 6, 7, 8	• Find 6, 7, 8
	• Represent 6, 7, 8
2 weeks	• 1 more
	• 1 less
	• Composition of 6, 7, 8
	 Make pairs – odd and even
	 Double to 8 (find a
	double)
	• Double to 8 (make a
	double)
	 Combine 2 groups
	 Conceptual subitising

	National Curriculum Objectives	Small Steps
Number: Place Value (within 20) 3 weeks	 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. 	 Count within 20 Understand 10 Understand 11, 12 and 13 Understand 14, 15 and 16 Understand 20 1 more and 1 less The number line to 20 Use a number line to 20 Estimate on a number line to 20 Compare numbers to 20 Order numbers to 20
Number: Addition and Subtraction (within 20) 3 weeks	 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=	 Add by counting on within 20 Add ones using number bonds Find and make number bonds to 20 Doubles Near doubles Subtract ones using number bonds Subtraction – counting back Subtraction – finding the difference Related Facts Missing number problems

Length, height and time 2 weeks	 Explore length Compare length Explore height Compare height Talk about time Order and sequence time
Building 9 and 10	Find 9 and 10Compare number to 10
3 weeks	 Represent 9 and 10 Conceptual subitising to 10 1 more 1 less Composition to 10 Bonds to 10 (2 parts) Make arrangements of 10 Bonds to 10 (3 parts) Doubles to 10 (find a double) Doubles to 10 (make a double) Explore even and odd
Explore 3-D shapes	Recognise and name 3-D shapes
2 weeks	• Find 2-D shapes with 3-D shapes

Number: Place Value (within 50) 2 weeks Measurement: Length	 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. Measure and begin to record 	 Count from 20 to 50 20, 30, 40, 50 Count by making groups of tens Groups of tens and ones Partition into tens and ones The number line to 50 Estimate on a number line to 50 1 more, 1 less
and Height 2 weeks	lengths and heights. Compare, describe and solve practical problems for: lengths and heights (for example, long/short, longer/shorter, tall/short, double/half)	 Measure length using objects Measure length in centimetres
Measurement: Mass and Volume	Measure and begin to record mass/weight, capacity and volume.	Heavier and lighterMeasure massCompare mass
2 weeks	Compare, describe and solve	Full and empty

 Use 3-D shapes for tasks 3-D shapes in the environment Identify more complex patterns Copy and continue patterns Patterns in the environment 	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] • Compare volume • Measure capacity • Compare capacity
--	---

Summer

	Small Steps	
To 20 and beyond	• Build numbers beyond 10 (10 – 13)	
2 weeks	Continue patterns	
	beyond 10 (10 – 13)	
	Build numbers beyond	
	10 (14 – 20)	
	Continue patterns	
	beyond 10 (14 – 20)	
	 Verbal counting beyond 	
	20	
	Verbal counting patterns	
	•	
How many now?	Add more	
4	How many did I add?	
1 week	Take away	
	How many did I take	
	away?	
Manipulate, compose	Select shapes for a	
and decompose	purpose	
and decompose	Rotate shapes	
2 weeks	 Manipulate shapes 	
	Explain shape	
	arrangements	
	Compose shapes	
	Decompose shapes	

	National Curriculum Objectives	Small Steps
Number: Multiplication and Division 3 weeks	 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. 	 Count in 2s Count in 10s Count in 5s Recognise equal groups Add equal groups Make arrays Make doubles Make equal groups - grouping Make equal groups - sharing
Number: Fractions 2 weeks	 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. 	 Recognise a half of an object or shape Find a half of an object or shape Recognise a half of a quantity Find a half of a quantity Recognise a quarter of an object or shape Find a quarter of an object or shape Recognise a quarter of a quantity Find a quarter of a quantity
Geometry: Position and Direction 1 week	Describe position, direction and movement, including whole, half, quarter and three quarter turns.	 Describe turns Describe position – left and right Describe position – forwards and backwards Describe position – above and below Ordinal numbers

Sharing and grouping 2 weeks	 Copy 2-D shape pictures Find 2-D shapes within 3-D shapes Explore sharing Sharing Explore grouping Grouping Even and odd sharing Play with and build doubles
Visualise, build and	Identify units of
map	repeating patterns
2	Create own pattern rules
3 weeks	 Explore own pattern rules
	Replicate and build
	scenes and constructions
	 Visualise from different positions
	Describe positions
	Give instructions to build
	Explore mapping
	Represent maps with
	modelsCreate own maps from
	familiar places
	Create own maps and
	plans from story
	situations

Number: Place Value (within 100) 2 weeks	 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. 	 Count from 50 to 100 Tens to 100 Partition into tens and ones The number line to 100 1 more, 1 less Compare numbers with the same number of tens Compare any two numbers
Measurement: Money 1 week	Recognise and know the value of different denominations of coins and notes.	 Unitising Recognise coins Recognise notes Count in coins

Make connections	Deepen understanding
4	Patterns and
1 week	relationships
Consolidation	
_	
1 week	

Measurement: Time	Sequence events in	Before and after
Theasarchieffe. Thile	chronological order using	5 (1)
2 weeks		•
2 weeks	language [for example, before	Months of the year
	and after, next, first, today,	Hours, minutes and seconds
	yesterday, tomorrow, morning,	Tell the time to the hour
	afternoon and evening.	 Tell the time to the half hour
	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)	
Consolidation		
1 week		