





<u>Owl 2022-2023</u>

Autumn

	National Curriculum Objectives	Small Steps		National Curi Objectives
Number: Place Value (within 10) 5 weeks	 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. 	 Sort objects Count objects from a larger group Represent objects Recognise numbers as words Count on from any number 1 more Count within 10 1 less Compare groups by matching Fewer, more same Less than, greater than, equal to Compare numbers 	Number: Place Value 4 weeks	 Read and to at leas numerals Recognise value of e two digit ones) Identify, n estimate different represent including line. Compare numbers 100; use signs.



	National Curriculum	Small Steps
Number: Place Value 4 weeks	 Objectives 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) Identify, represent and estimate numbers using different representations including the number line. Compare and order numbers from 0 up to 100; use <, > and = signs. 	 Number to 20 Count objects to 100 by making 10s Recognise tens and ones Use a place value chart Partition numbers to 100 Write numbers to 100 in words Flexibly partition numbers to 100 Write numbers to 100 in expanded form 10s on the number line to 100 10s and 1s on the number line to 100 Estimate numbers on a
		number line

		 Order objects and numbers The number line 		 Use place value and number facts to solve problems. Count in steps of 2, 3 and 5 from 0, and in tens from any number, forward and backward. 	 Compare objects Compare numbers Order objects and numbers Count in 2s, 5s and 10s Count in 3s
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 Number bonds to 10 Addition - add together 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 	Number: Addition and Subtraction 5 weeks	 Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100. Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens; two two-digit numbers; adding three one-digit numbers. Show that the addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those 	 Bonds to 10 Fact families – addition and subtraction bonds within 20 Related facts Bonds to 100 (tens) Add and subtract 1s Add by making 10 Add three 1-digit numbers Add to the next 10 Add across a 10 Subtract across 10 Subtract from a 10 Subtract a 1-digit number from a 2-digit number (across a 10) 10 more, 10 less Add two 2-digit numbers (not across a ten) Subtract two 2-digit numbers (across a ten) Subtract two 2-digit numbers (not across a ten) Subtract two 2-digit numbers (not across a ten) Subtract two 2-digit numbers (not across a ten)

				 involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods. Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. Mixed addition and subtraction Compare number sentences Missing number problems
Geometry: Shape 1 week	 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.) 	 Recognise and name 3-D shapes Sort 3-D shapes Recognise and name 2-D shapes Sort 2-D shapes Patterns with 2-D and 3-D shapes 	Geometry: Properties of Shape 3 weeks	 Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line. Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces. Identify 2-D shapes on Recognise 2-D and 3-D shapes Count sides on 2-D shapes Count vertices on 2-D shapes Draw 2-D shapes Lines of symmetry on shapes Use lines of symmetry to complete shapes
Consolidation 1 week				 the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid.] Compare and sort common 2-D and 3-D shapes and everyday objects. Count faces on 3-D shapes Count edges on 3-D shapes Count vertices on 3-D shapes Count vertices on 3-D shapes Sort 3-D shapes Sort 3-D shapes Make patterns with 2-D and 3-D shapes

Spring

	National Curriculum	Small Steps		National Curriculum	Small Steps	
	Objectives			Objectives		
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 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 	Measurement: Money 2 weeks	 Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. Find different combinations of coins that equal the same amounts of money. Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change. 	 Recognising coins and notes Count money – pence Count money – pounds (notes and coins) Count money – notes and coins Select money Make the same amount Compare money Find the total Find the difference Find the difference Find change Two-step problems 	
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. 	 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 	Multiplication and Division 5 weeks	 Recall and use multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers. Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), 	 Make equal groups Add equal groups Make arrays Recognise equal groups Make equal groups Add equal groups Add equal groups Multiplication sentences using the × symbol Multiplication sentences from pictures Use arrays 	

Number: Discs	•	Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7= _ _9		Numbers to 50		•	division (÷) and equals (=) sign. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including	• • • • •	Make doubles 2 times-table 5 times-table 10 times-table Make equal groups - sharing Make equal groups - grouping
Value (within 50) 2 weeks	•	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		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		•	problems in contexts. Show that the multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.	•	Divide by 2 Odd & even numbers Divide by 5 Divide by 10
Measurement: Length and Height	•	Measure and begin to record lengths and heights.	•	Compare lengths and heights Measure length (1)	Measurement: Length and Height	•	Choose and use appropriate standard units to estimate and	•	Compare lengths and heights Measure lengths (1)
2 week	•	Compare, describe and solve practical problems for: lengths and heights (for example,	•	Measure length (2)	2 weeks		measure length/height in any direction (m/cm); mass (kg/g); temperature (°C);	• • •	Measure lengths (2) Measure length (cm) Measure length (m) Compare lengths

	long/short, longer/shorter, tall/short, double/half)			capa the r unit, thern mea • Com leng volu reco >, < a
Measurement: Weight and Volume 2 week	 Measure and begin to record mass/weight, capacity and volume. 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] 	 Introduce weight and mass Measure mass Compare mass Introduce capacity Measure capacity Compare capacity 	Measurement: Mass, Capacity and Temperature 3 weeks	 Choose approvide the results of the re

	 capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels Compare and order lengths, mass, volume/capacity and record the results using >, < and = 	 Order lengths Four operations with lengths
Measurement: Mass, Capacity and Temperature	 Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); 	 Introduce weight and mass Measure mass Compare mass Measure mass in grams
3 weeks	mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels Compare and order lengths, mass, volume/capacity and record the results using >, < and =	 Measure mass in kilograms Introduce capacity and volume Measure capacity Compare capacity Millilitres Litres Temperature

Summer

	National Curriculum	Small Steps			
	Objectives				
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 10s Make 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. 	 Halving shapes or objects Halving a quantity Find a quarter of a shape or object 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 (1) Describe Position (2) Ordinal numbers (1st, 2nd, 3rd) 			

	National Curriculum	Small Steps			
	Objectives				
Statistics 2 weeks	 Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. Ask and answer questions about totalling and comparing categorical data. 	 Make tally charts Draw pictograms (1-1) Interpret pictograms (1-1) Draw pictograms (2, 5 and 10) Interpret pictograms (2, 5 and 10) Block diagrams 			
Number: Fractions 3 weeks	 Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity. Write simple fractions for example, 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2. 	 Make equal parts Recognise a half Find a half Recognise a quarter Find a quarter Recognise a third Find a third Unit fractions Non-unit fractions Equivalence of 1/2 and 2/4 Find three quarters Count in fractions 			
Position and Direction 2 weeks	 Use mathematical vocabulary to describe position, direction and movement including movement in a straight line and distinguishing 	 Describe position (1) Describe position (2) Describe movement Describe turns Describe movement and turns 			

				between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise). Order and arrange combinations of mathematical objects in	Making patterns with shapes
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 	 Counting to 100 Partitioning numbers Comparing numbers (1) Comparing numbers (2) Ordering numbers One more, one less 	Problem Solving 2 weeks		
Measurement: Money 1 week	Recognise and know the value of different denominations of coins and notes	 Recognising coins Recognising notes Counting in coins 	Measurement: Time 3 weeks	Tell and write the time to five minutes, including quarter past/to the bour and	 Telling time to the hour Telling time to the half hour O'clock and half past
Measurement: Time	Sequence events in chronological order using language [for	 Before and after Dates Time to the hour 		draw the hands on a clock face to show these times.	 Quarter past and quarter to

2 weeks	 example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening. 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) 	 Time to the half hour Writing time Comparing time 	Know the number of minutes in an hour and the number of hours in a day. Compare and sequence intervals of time.	 Telling time to 5 minutes Writing time Hours and days Find durations of time Compare durations of time
Consolidation 1 week	minutes, seconds)			