

Abbey CofE Infant and Nursery School - Maths Long Term Plan

Shine Brightly



YEAR	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Squirrels Nursery 2 – 3 year olds	Shape Combine objects like stacking blocks and cups. Put objects inside others and take them out again. Climb and squeeze themselves into different types of spaces. Build with a range of resources.		Counting & Number Take part in finger rhymes with numbers. Develop counting-like behaviour, such as making sounds, pointing or saying some numbers in sequence. Shape Complete inset puzzles. Measure Compare sizes, weights etc. using gesture and language - 'bigger/little/smaller', 'high/low', 'tall', 'heavy'.		React to changes of amount in a group of up to three items. Shape Notice patterns and arrange things in patterns. Basic 2D shapes- circle, triangle, rectangle, square Measure Compare amounts, saying 'lots', 'more' or 'same'. Counting & Number Count in everyday contexts, sometimes skipping numbers - '1-2-3-5.' Rote count to 5 Begin to recognise numerals 0-5.	
Owls Nursery Pre-School 3 – 4 year olds	Counting & Number Number rhymes Eg. 1,2,3,4,5 once I caught a fish alive. Counting to five using fingers. Recite numbers to 10. Introduce cardinal principle. Introduce and focus on numbers 0, 1 and 2. Subitising objects for the amounts of 0,1 and 2. Positional Language Introduce positional language up and down – active songs/ movement.	Counting & Number Continue number rhymes. Recite numbers to 10. Introduce and focus on numbers 3 and 4. Subitising objects for the amounts of 0,1,2, 3 and 4. Shape 2d and 3d shapes – link with Christmas shapes eg. Triangles, baubles. Positional Language Introduce positional language in, on – link with cooking. Recognising patterns – link with celebrations and decorations.	Counting & Number Recite numbers to 10 (and beyond). Introduce and focus on number 5. Subitising objects for the amounts of 0,1,2,3,4 and 5. Measure Compare quantities using language: 'more than', 'fewer than'. Make comparisons between objects relating to size. Positional Language Introduce positional language under, beside, between – link to traditional tales – eg. put the troll under the bridge	Counting & Number Recite numbers to 10 (and beyond). Matching numerals to amounts 0-5. Subitising objects for the amounts of 0,1,2,3,4 and 5. Measure: Length & Height Make comparisons between objects relating to length – caterpillars. Shape Repeating patterns. Measure: Time Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...' – life cycles.	Counting & Number Matching numerals to amounts 0-5. (use resources in environment eg. 5 pencils in pot). Shape 2d and 3d shapes – link with construction and building blocks. Positional Language Obstacle courses – link with journeys. Describe the route using key vocab eg. Under. Read stories about journeys and recap what happened and the routes taken. Measure: Weight Make comparisons between objects relating to weight.	Counting & Number Recite numbers to 10 (and beyond). Matching numerals to amounts 0-5. (use resources in environment eg. 5 pencils in pot). Solve real world mathematical problems with numbers up to 5. Experiment with their own symbols and marks as well as numerals. Measure: Weight Make comparisons between objects relating to capacity. Measure: Time Describe a sequence of events, real or fictional, using words such as 'first', 'then...' - link with stories.
Reception	Counting & Number <ul style="list-style-type: none"> identify when a set can be subitised and when counting is needed subitise different arrangements, both unstructured and structured make different arrangements of numbers within 5 and talk about what they can see, to develop their conceptual subitising skills spot smaller numbers 'hiding' inside larger numbers connect quantities and numbers to finger patterns and explore different ways of representing numbers on their fingers 		Counting & Number <ul style="list-style-type: none"> continue to develop their subitising skills for numbers within and beyond 5, and increasingly connect quantities to numerals begin to identify missing parts for numbers within 5 explore the structure of the numbers 6 and 7 as '5 and a bit' and connect this to finger patterns and the Hungarian number frame focus on equal and unequal groups when comparing numbers understand that two equal groups can be called a 'double' and connect this to finger patterns 		Counting & Number <ul style="list-style-type: none"> continue to develop their counting skills, counting larger sets as well as counting actions and sounds explore a range of representations of numbers, including the 10-frame, and see how doubles can be arranged in a 10-frame compare quantities and numbers, including sets of objects which have different attributes continue to develop a sense of magnitude, e.g. knowing that 8 is quite a lot more than 2, but 4 is only a little bit more than 2 	

	<ul style="list-style-type: none">• hear and join in with the counting sequence, and connect this to the ‘staircase’ pattern of the counting numbers, seeing that each number is made of one more than the previous number• develop counting skills and knowledge, including: that the last number in the count tells us ‘how many’ (cardinality); to be accurate in counting, each thing must be counted once and once only and in any order; the need for 1:1 correspondence; understanding that anything can be counted, including actions and sounds• compare sets of objects by matching• begin to develop the language of ‘whole’ when talking about objects which have parts Shape Shapes with four sides Positional language Measure: Time Time (night and day)	<ul style="list-style-type: none">• sort odd and even numbers according to their ‘shape’• continue to develop their understanding of the counting sequence and link cardinality and ordinality through the ‘staircase’ pattern• order numbers and play track games• join in with verbal counts beyond 20, hearing the repeated pattern within the counting numbers Measure: Weight comparing mass and capacity Measure: Length and height length and height Shape Patterns (AB, ABB, AAB) 3D Shapes	<ul style="list-style-type: none">• begin to generalise about ‘one more than’ and ‘one less than’ numbers within 10• continue to identify when sets can be subitised and when counting is necessary• develop conceptual subitising skills including when using a rekenrek Shape Spatial Reasoning composing and decomposing shapes Division Sharing and grouping			
Year 1	Number: Place value (within 10/20) Counting & representing numbers within 10 and then 20 1:1 correspondence Comparing sets of objects Counting forwards and backwards from any number Number sequences 1 more or less Introducing greater than / less than symbols Using < > to compare two numbers. Ordering numbers. Ordinal numbers	Fact Families Number Bonds Addition / Subtraction fact families Working toward systematic number bonds Adding & Subtraction Add/subtract single digit numbers using bar model/part, part whole Adding by counting on from the bigger number Subtracting by counting back Adding by counting on from the bigger number Subtracting by counting back Finding a Part Missing numbers with single digit number addition Missing numbers with single digit number addition	Multiplication: Count in 10s Counting in 10s & counting groups of 10 Repeated addition Multiplication: Arrays Making arrays to multiply in 10s, 2s and 5s Division Division by sharing Division – Making groups (grouping) Division – Making groups (grouping)	Division Division by sharing Division – Making groups (grouping) Division – Making groups (grouping) Shape Sorting, recognising and describing 2D and 3D shapes Sorting, recognising and describing 2D and 3D shapes	Fractions Finding quarters of objects, shape & numbers Finding halves of objects, shape & numbers Finding quarters of objects, shape & numbers Number: Place value within 50 Partitioning numbers Ordering, comparing numbers and number sequences Ordering, comparing numbers and number sequences Addition and Subtraction within 20 Different ways to add / subtract Missing numbers Different ways to add / subtract Missing numbers	Number: Place value within 100 Partitioning Ordering, comparing numbers and number sequences Partitioning Ordering, comparing numbers and number sequences Partitioning Measure: Length & Height Compare length & height. Measure: Capacity Measure weight & capacity. Time Reading & making o’clock and half past times Reading & making o’clock and half past times Money Recognising coins and notes Counting in coins Recognising coins and notes Counting in coins Number: Consolidation Consolidate +/–/x/+
Year 2	Number: Place value (within 100) Numbers to 20 Counting objects to 100 Recognise 10s and 1s Partition numbers to 100 Write numbers to 100 in words Flexibly partition numbers Write numbers in expanded form 10s and 1s on a number line Estimate numbers on a number line Compare objects and numbers Count in 2s 10s 5s 3s Addition & Subtraction – Bonds to 10 Bonds to 100	Addition & Subtraction Add and subtract 1s Add three 1 digit numbers Add and subtract a 1 digit number to a 2digit number 10 more/less Add and subtract 10 Add two 2digit numbers Subtract two 2digit numbers Money Count in £ and p Compare amounts Choose notes and coins to make an amount Make the same amount in different ways	Multiplication/Division Count in 2s, 5s, 10s Recognise, make and add equal groups (repeated addition) Introduce x symbol Multiplication sentences (repeated addition and x) Linked to 2x, 5x, 10x Introduce and link arrays Multiplication using repeated addition, arrays and x. 2x, 5x, 10x tables Sharing into groups of 2, 5, 10 Link to x tables Solve problems involving division and grouping	Multiplication/Division Sharing into groups of 2, 5, 10 Link to x tables Solve problems involving division and grouping Doubling and halving Odd and even numbers Fractions Equal and unequal parts ½ of shapes and numbers ¼ of shapes and numbers 2/4 and ¾ of shapes and numbers Recognise the equivalence of a half and two quarters 1/3 of shapes and numbers	Time Minutes in an hour Hours in a day O’clock and half past Quarter past, quarter to Tell the time to 5 minutes Shape Recognise, name, sort, describe 2D shapes Finding lines of symmetry Use lines of symmetry Patterns with 2D and 3D shapes Recognise, name, sort, describe 3D shapes Statistics Make tally charts	Weight, length & Measure Measure and compare lengths and heights 4 operations with length and heights Weight / capacity Reading different scales Capacity, Temperature Measure and compare weights, capacity and temperatures Position & Direction Language of position, direction, turns

	Addition and subtraction fact families to 20 Related facts	Calculate with money	Doubling and halving Odd and even numbers	Unit fraction Non unit fractions Count in fractions	Draw & interpret.. Tables Block diagrams Pictograms	Consolidation
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