Mathematics

Evelyn Street Primary Academy

Long term plan 23-24

NURSERY

Evelyn Street Primary School- Number and Number Patterns

Maths progression through EYFS Nursery

Learning Outcomes	**Autumn 1** Colours and feelings	**Autumn 2** Families and Celebrations	**Spring 1** Traditional Tales	**Spring 2** Growing and changing	**Summer 1** People Who Help Us	**Summer 2** Wild Animals / Zoo
	⇨ Engage in open-ended play, developing one-to-one correspondence e.g. *one doll in a pram / one peg in each bowl* ⇨ Participate in number songs – beginning to use fingers to represent numbers ⇨ Count by rote from 1-5+ ⇨ Identify a small set that has 'more' or 'less' or the 'same'.		⇨ Count accurately using 1-1 correspondence for numbers 1-3 ⇨ Identify some representations of numbers 1,2,3, ⇨ Begin to subitise 1-3 ⇨ Match objects to numerals using 1-3 ⇨ Count by rote to 10		⇨ Count forwards and backwards ⇨ Count accurately using 1- correspondence for numbers 1-5 ⇨ Find 1 more and 1 less than a number between 1 and 5 ⇨ Begin to subitise to 5 ⇨ Recognise and order numbers 1-5+	

Learning Outcomes	**Autumn 1** Colours and feelings	**Autumn 2** Families and Celebrations	**Spring 1** Traditional Tales	**Spring 2** Growing and changing	**Summer 1** People Who Help Us	**Summer 2** Wild Animals / Zoo
	⇨ Sort objects by colour using the words *same* and *different* ⇨ Sort different objects by noticing similarities and differences e.g. *Autumn items* ⇨ Use the language of size - *big/ little, small/large* ⇨ Use language of *long* and *short* to describe lengths ⇨ Copy a simple repeating pattern. ⇨ Follow the daily routine and begin to predict what might happen next with a visual timetable		⇨ Sort objects by shape and size ⇨ Begin to continue a repeating pattern ⇨ Compare amounts using full / empty to make comparisons ⇨ Start to make direct comparisons using longer/ shorter, taller/ shorter to describe ⇨ Compare lengths using practical objects and begin to make some comparisons using appropriate language ⇨ Name simple 2D shapes of circle, triangle, rectangle and square		⇨ Begin to make own repeating pattern ⇨ Describe shapes they see in images and pictures. ⇨ Use words such as round/ straight/ flat to describe shape characteristics. ⇨ Talk about and sequence the events within a school day ⇨ Use time vocabulary of - *day/night/today/tomorrow/before/after that* to describe when an event is happening ⇨ Use words such as heavy/light ⇨ Use words of more or less when describing quantities ⇨ Use positional language to place and describe items - *under/ in/ on/ on top of/ behind/ in front of/* ⇨ Use directional language of up/ down / across to describe locations.	

Mathematics – EYFS Reception

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Cardinality & Counting 1.1 Accurate counting of sets of objects 1-5 NB S1 episodes 9 & 10 (1:1 correspondence, cardinality) 1.2 Subitising 1-3 NB S1 episodes 1-4 (Introducing 1, 2 and 3) 1.3 Numeral Recognition to 5 **Composition** 1.1 Conceptual subitising - noticing numbers within numbers **Comparison** 1.1 Compare sets 1-5 using vocab of more / fewer / most /fewest **Shape/Space** 1.1 2D shapes and their properties **Pattern** 1.1 Simple AB patterns (complete, copy, make own and spot/correct errors in patterns) A lot of this content should be a recap from Nursery and provide you with baseline assessment data	**Cardinality & Counting** 2.1 Accurate counting of sets of objects 1-10, recognising and ordering numerals 1-10 2.2 Subitising 1-5 NB S1 episodes 6 & 7 (Introducing 4 and 5) **Composition** 2.1 Applied conceptual subitising NB S1 episode 11 (Stampolines) 2.2 Inverse operations - splitting and recombining sets of objects 1-5 including on part whole model NB S1 episode 12 (Whole of me) **Comparison** 2.1 Compare numbers using vocab of more/less 2.2 Find 1 more using sets of objects on tens frames and on a number track **Pattern** 2.1 identifying unit of repeat – AB & ABC patterns	**Cardinality & Counting** 3.1 Counting backwards 10-1 & ordering numbers 10-1 **Composition** 3.1 Systematic approach to partitioning sets of objects 1-5 including on part whole model NB S1 episode 14 (Holes) **Comparison** 3.1 Find 1 less using sets of objects on tens frame and on a number track **Measures** 3.1 Height **Shape/Space** 3.1 Spatial vocabulary (in front, behind, in between, on, in, under, first second, third) **Pattern** 3.1 More complex patterns – ABB, ABBC 3.2 Generalising pattern and transferring to another format e.g. link pattern of shapes to movements	**Composition** 4.1 Recall number bonds for numbers 1-5 4.2 Partitioning and recombining sets of objects 6-9 Including on part whole model and tens frame NB S2 episodes 1-5 (Introducing 6-10) **Measures** 4.1 Length **Shape/Space** 4.1 Representing spatial relationships as maps Spatial vocabulary (forwards, backwards, up, down, across) **Pattern (alongside Comparison)** 4.1 Numerical Patterns – staircase patterns linked to finding 1 more/1 less using a mental numberline (Comparison) NB S2 episodes 6 & 7 (Just add one & ten green bottles)	**Cardinality & Counting** 5.1 Counting beyond 10 noticing pattern in ones **Composition** 5.1 Systematic approach to splitting and recombining 10 including on tens frame and part whole model 5.2 recall some number bonds for 10 NB S2 Episode 13 (Blast Off!) **Measures** 5.1 Mass **Shape/Space** 5.1 3D shapes properties of shapes **Patterns** 5.1 Numerical patterns odds & evens NB S2 episode 11 (Odds & Evens)	**Cardinality & Counting** 6.1 Counting beyond 20 noticing pattern in tens **Measures** 6.1 Capacity 6.2 Time – sequence of events **Shape/Space** 6.1 Relationships between shapes **Pattern (alongside Composition & Comparison)** 6.1 Symmetry/reflections – link to doubles 6.2 Share fairly (comparison), Use part whole model to partition numbers where both parts are the same (Composition) and Look at halving as inverse of doubles (Pattern) NB S2 episode 9 (Double Trouble) Possible extension Sharing between more than two (comparison) NB S2 episode 8 (Counting Sheep) Splitting into more than 2 parts on a part whole model (composition) NB S2 episode 10 (The three threes)

	YEAR 1					
Autumn	Number: Place Value (within 10)		Number: Addition and Subtraction (within 10)		Geometry: Shape	
Spring	Number: Place Value (within 20)	Number: Addition and Subtraction (within 20)	Place value within 50	Measurement: Length and height	Measurement: Mass and Volume	
Summer	Number: Multiplication and Division	Number: Fractions	Geometry: Position & Direction	Number: Place Value (within 100)	Measures: Money	Measurement: Time

	YEAR 2			
Autumn	Number: Place Value	Number: Addition and Subtraction	Geometry: Properties of Shape	
Spring	Measurement: money	Number: Multiplication and Division	Measurement: Length & Height	Measurement: Mass, Capacity and Temperature
Summer	Number: Fractions	Measurement: Time	Statistics	Geometry: Position and Direction

Term	3/4 overview			
Autumn	Number: Place Value	Number: Addition and Subtraction	Number: Multiplication and Division	
	• *Language of 25, 50, 75, 100 must be needs to be a fluent spoken language pattern* • *Yr 3= Multiplication tables - Divide 2, 5, 10 and recite in 4, 8, count 3, 11* • *Yr 4 = Multiplication tables - Divide 2, 4, 5, 10, 11 and multiply 3, 8 and recite 6, 7, 9, 12*			
Spring	Number: Multiplication and Division	Measurement: Length and Perimeter and Area (Yr 4 only)	Number: Fractions	Measures: Mass and Capacity (Yr 3) Decimals (Yr 4)
	Yr 3= Multiplication tables - Divide 2, 5, 10 and multiply 4, 8, recite 3, 11 *Yr 4 = Multiplication tables - Divide 2, 3, 4, 5, 8, 10, 11 and multiply 6, 7, 9, 12*			
Summer	Number: Decimals Measure: Money	Measurement: Time	Statistics	Geometry: Properties of shape and Position and direction (Yr 4 only)
	Yr 3= Multiplication tables - Divide 2, 4, 5, 10 and multiply 8, 3, 11 *Yr 4 = Multiplication tables - Divide all to 12 x 12*			

<table>
<tr><th></th><th colspan="5">5/6 Overview</th></tr>
<tr><td>Autumn</td><td colspan="2">Number: Place Value</td><td colspan="2">Number: Four operations</td><td>Number: Fractions</td></tr>
<tr><td rowspan="2">Spring</td><td colspan="2" rowspan="2">Number: Decimal and Percentages</td><td rowspan="2">Measure: Convert units</td><td rowspan="2">Number: Ratio</td><td rowspan="2">Measure: Perimeter, Area and Volume</td><td>Yr 5 consolidation</td></tr>
<tr><td>Yr6 Number: Algebra</td></tr>
<tr><td>Summer</td><td colspan="2">Geometry: Property of Shape and Position and Direction</td><td colspan="2">Statistics</td><td>Investigations and consolidation</td></tr>
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