

Ruby Reception Medium Term Maths Plan

<p>-Key vocab for each learning objective is in red font / Resources -see the weekly planning /</p> <p>-Minimum Assessment for Learning strategies for all topics = Peer Talk; targeted questioning; mini white boards; and self and peer marking</p> <p>- Long term memory development strategies= Recapping previous learning at the start of each new topic / Long term memory strategy linked to the objectives on this sheet for each week</p> <p>-Mathematics Cultural Capital = Applying maths investigative Skill and problem-solving skills = Try to embed these into all lessons – where applicable</p>							
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn first half	Settling In LO 1: Explore the classroom environment, routines and resources. LO 2: Join in with counting songs and rhymes. LO 3: Adults model using mathematical language (big/ small; more/ less).	Getting to Know You LO 1: Use real contexts (register/snack) for counting. LO 2: Sort by personal preference (favourite toys/colours). LO 3: Notice and use same/ different in practical games.	Match and Sort LO 1: Match and sort objects by colour, shape and size. LO 2: Use and understand same/ different. LO 3: Explain sorting choices in simple sentences.	Compare (amount/size/mass/capacity) LO 1: Compare groups using more, fewer, same. LO 2: Compare length/ height (long/ short/ tall). LO 3: Compare mass (heavy/ light) and capacity (full/ empty).	Introducing 1, 2, 3 LO 1: Represent 1, 2 and 3 (objects, fingers, marks). LO 2: Compare numbers to 3 using more/ fewer. LO 3: Explore composition of 1–3 (e.g., 2 and 1 make 3).	Pattern LO 1: Recognise, copy and continue AB patterns. LO 2: Create patterns with colour, shape, sound and movement. LO 3: Describe what repeats and what changes.	Assessment, Review and Consolidation
Autumn second half	Numbers 4 and 5 LO 1: Represent 4 and 5 (objects, fingers, marks). LO 2: Understand one more/one less within 5. LO 3: Compare groups of 4 and 5.	Shapes with 4 sides LO 1: Recognise and name 2-D shapes with 4 sides (square, rectangle). LO 2: Explore properties (sides, corners). LO 3: Find and describe shapes in the environment.	Positional Language LO 1: Use positional words: on, in, under, next to, behind. LO 2: Follow simple positional instructions. LO 3: Apply in stories, small-world and outdoor play.	Growing 6, 7, 8 – Representing & Comparing LO 1: Represent 6, 7, 8 with objects, fingers and marks. LO 2: Compare to 8 using more/ fewer/ same. LO 3: Explore composition (e.g., 5 and 1 make 6).	Growing 6, 7, 8 – Making Pairs LO 1: Identify and make pairs (socks, shoes, dominoes). LO 2: Match and compare paired/unpaired sets. LO 3: Talk about the odd one out.	Growing 6, 7, 8 – Combining 2 Groups LO 1: Combine two groups to find a total within 10. LO 2: Use first, then, now language to tell addition stories. LO 3: Use add, altogether, total.	Assessment, Consolidation and Review
Spring first half	Alive in 5 – Zero to 5 LO 1: Introduce zero; recognise 0 as 'nothing there'. LO 2: Count, subitise and represent 0–5 in different ways. LO 3: Match numerals to quantities to 5.	Alive in 5 – One More/One Less & Composition LO 1: Find one more and one less within 5 using number tracks/frames. LO 2: Explore composition of 0–5 (parts and whole). LO 3: Develop conceptual subitising to 5 (seeing parts).	Mass – Compare & Balance LO 1: Compare mass: heavy, light, heavier than, lighter than. LO 2: Use balance scales to find a balance. LO 3: Explain comparisons in full sentences.	Capacity – Explore & Compare LO 1: Explore capacity: full, empty, more/ less. LO 2: Compare containers and talk about which holds more. LO 3: Solve practical pouring and filling problems.	Growing 6, 7, 8 – Represent & Compare LO 1: Represent 6, 7, 8; subitise familiar arrangements. LO 2: Compare to 8 using more/ fewer/ same. LO 3: Discuss composition (e.g., 4 and 4 make 8).	Growing 6, 7, 8 – Pairs & Combining LO 1: Identify pairs and odd ones out. LO 2: Combine two groups to find totals within 10. LO 3: Use first, then, now to explain thinking.	Assessment, Consolidation and Review
Spring second half	Building 9 & 10 – Representing 9 and 10 LO 1: Represent 9 and 10 using tens frames/Numicon. LO 2: Order numbers to 10; compare more/ fewer/ same. LO 3: Explore composition of 9 and 10 (e.g., 6 and 3).	Building 9 & 10 – Number Bonds to 10 LO 1: Explore and recall pairs that make 10. LO 2: Partition 10 on a ten-frame and with real objects. LO 3: Apply bonds in simple problems and games.	Building 9 & 10 – 3D Shapes LO 1: Name simple 3D shapes (cube, cuboid, sphere, cone, cylinder). LO 2: Explore faces/ edges/ corners through handling/ building. LO 3: Find 2D shapes within 3D shapes.	Building 9 & 10 – Pattern LO 1: Create and continue repeating patterns (AB/ABB/ABC). LO 2: Use shapes, colours, sounds and movements to pattern. LO 3: Spot and correct mistakes in patterns.	Length, Height and Time LO 1: Compare and order length/ height. LO 2: Sequence familiar events: before/ after/ first/ next/ last. LO 3: Use everyday time language in routines.	Consolidation & Spatial Reasoning LO 1: Describe position/ direction in block play and small world. LO 2: Recreate routes and constructions from models/ pictures. LO 3: Solve simple spatial problems collaboratively.	Assessment, Consolidation and Review
Summer first half	To 20 and Beyond – Building Numbers LO 1: Build numbers beyond 10; recognise 10 and some numbers beyond. LO 2: Count reliably to 20 using tens frames/ objects. LO 3: Order and compare to 20.	To 20 and Beyond – Counting Patterns LO 1: Spot and continue counting patterns within/ beyond 20. LO 2: Count forwards/ backwards from any given number. LO 3: Match numerals, words and representations to 10 and beyond.	First, Then, Now – Adding More LO 1: Use first, then, now stories to add more. LO 2: Represent addition on a ten-frame and with objects. LO 3: Use vocabulary add, altogether, total.	First, Then, Now – Missing Parts (Taking Away) LO 1: Find the missing part in number stories. LO 2: Count back/ take away to solve. LO 3: Explain reasoning using complete sentences.	Manipulate, Compose and Decompose – Shapes 1 LO 1: Select and rotate shapes to fit a purpose. LO 2: Compose shapes to make new shapes/ pictures. LO 3: Explain shape choices using informal properties.	Manipulate, Compose and Decompose – Shapes 2 LO 1: Copy complex 2D shape pictures and spot mistakes. LO 2: Find 2D shapes within 3D shapes. LO 3: Describe similarities and differences between shapes.	Assessment, Consolidation and Review
Summer second half	Sharing and Grouping – Part 1 LO 1: Share small quantities equally in play. LO 2: Make equal groups in 2s, 5s and 10s. LO 3: Use vocabulary share, group, equal.	Sharing and Grouping – Part 2 LO 1: Explore doubles and halves practically. LO 2: Notice odd and even through pairing. LO 3: Record with marks/pictures and explain choices.	Visualise, Build and Map – Patterns LO 1: Identify the unit of repeat in patterns. LO 2: Create, continue and correct repeating patterns. LO 3: Explain pattern rules in words.	Visualise, Build and Map – Build & Visualise LO 1: Replicate and build scenes and constructions. LO 2: Visualise from different positions; use positional language. LO 3: Describe and follow routes in small world/outdoors.	Visualise, Build and Map – Mapping LO 1: Use simple maps to plan and follow routes. LO 2: Record journeys with arrows, lines and symbols. LO 3: Combine number, shape and position to solve problems.	Preparation for Year 1 – Problem Solving LO 1: Apply addition and subtraction within 20 in real contexts. LO 2: Solve measure problems (length, mass, capacity). LO 3: Use mathematical vocabulary confidently.	Assessment, Consolidation and Review