

The Trent-Rylands Federation



	Verti	cal progression	- Mathematics	s – Number &	Numerical Patteri	ns - Maths o	verview					
- Have a - Subitis - Autom Numeri - Verba - Compa	ELG Number Have a deep understanding of number to 10, including the composition of each number Subitise (recognise quantities without counting) up to 5 Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts Numerical Patterns Verbally count beyond 20, recognising the pattern of the counting system Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally											
Focus	Place Value: Counting	Place Value: Represent	Place Value: Use & compare	Composition of numbers	Addition & Subtraction: Recall, represent, use	Addition & Subtraction:	Addition & Subtraction: Solve	Foundations of multiplication	Number patterns			
						Calculations	problems	and division				
F1	 Rote count to numbers past 5 Points or touches (tags) each item, saying one number for each item, using the stable order of 1,2,3,4,5 Counts by moving and rearranging the objects. Knows that the last number reached when counting a small set of objects tells you how many there are. Uses some number names and number language within play, and may show fascination with large numbers 	 Begin to recognise numerals 0 to 10 Subitises one, two and three objects (without counting) show finger numbers up to 5. Links numerals with amounts up to 5 and maybe beyond Experiment with their own symbols and marks as well as numerals 	• Compares two small groups of up to five objects, saying when there are the same number of objects in each group, e.g. You've got two, I've got two. Same!	 Able to subitise to 3 quickly without counting numbers individually. Be able to represent numbers to 4 using different combinations of numbers. 	 Counts up to five items, recognising that the last number said represents the total counted so far (cardinal principle) Explores using a range of their own marks and signs to which they ascribe mathematical meanings 	 Through play and exploration, beginning to leam that numbers are made up (composed) of smaller numbers Beginning to recognise that each counting number is one more than the one before 	 Beginning to use understanding of number to solve practical problems in play and meaningful activities Separates a group of three or four objects in different ways, beginning to recognise that the total is still the same Solve real world problems with m=numbers up to 5. 	• Groups and sorts items in to pairs or twos.	 Count in simple patterns 1,2-1,2- sing number songs that involves counting and patterns. 			
F2	 Enjoys reciting numbers from 0 to 10 (and beyond) and back from 10 to 0 Counts objects, actions and sounds. Counts out up to 10 objects from a larger group verbally count beyond 20, following the pattern of the number system. 	 Engages in subitising numbers to four and maybe five Increasingly confident at putting numerals in order 0 to 10 (ordinality) Matches the numeral with a group of items to show how many there are (up to 10) 	 Uses number names and symbols when comparing numbers, showing interest in large numbers Estimates of numbers of things, showing understanding of relative size 	 Be able to subitise to 5. Shows awareness that numbers up to 10 are made up (composed) of smaller numbers, exploring partitioning in different ways with a wide range of objects 	 Begins to explore and work out mathematical problems, using signs and strategies of their own choice, including (when appropriate) standard numerals, tallies and + or - To recall number bonds to 5 quickly and some number bonds to 10 – addition and subtraction 	 In practical activities, adds one and subtracts one with numbers to 10 In practical activities be able to add and subtract small amounts totalling up to 10. 	• Begins to conceptually subitise larger numbers by subitising smaller groups within the number, e.g. sees six raisins on a plate as three and three	 Can group items quickly in to sets of 2 and 3. Can share amounts between 2 people fairly. 	Explore and represent patterns within numbers upto 10, including evens and odds, double facts.			



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Trent Vale Infant and Nursery School and Beeston Rylands Junior School

ELG None for Shape space and measures									
Focus	Spatial Awareness	Shape	Pattern	Measures					
F2	 Responds to and uses language of position and direction Predicts, moves and rotates objects to fit the space or create the shape they would like 	 Chooses items based on their shape which are appropriate for the child's purpose Responds to both informal language and common shape names Shows a wareness of shape similarities and differences between objects Enjoys partitioning and combining shapes to make new shapes with 2D and 3D shapes Attempts to create arches and enclosures when building, using trial and improvement to select blocks 	 Creates their own spatial patterns showing some organisation or regularity Explores and adds to simple linear patterns of two or three repeating items, e.g. stick, leaf (AB) or stick, leaf, stone (ABC) Joins in with simple patterns in sounds, objects, games and stories dance and movement, predicting what comes next 	 In meaningful contexts, finds the longer or shorter, heavier or lighter and more/less full of two items Recalls a sequence of events in everyday life and stories 					
F2	 Uses spatial language, including following and giving directions, using relative terms and describing what they see from different viewpoints Investigates turning and flipping objects in order to make shapes fit and create models; predicting and visualising how they will look (spatial reasoning) May enjoy making simple maps of familiar and imaginative environments, with landmarks 	 Uses informal language and analogies, (e.g. heart-shaped and hand-shaped leaves), as well as mathematical terms to describe shapes Enjoys composing and decomposing shapes, learning which shapes combine to make other shapes Uses own ideas to make models of increasing complexity, selecting blocks needed, solving problems and visualising what they will build Recognise & name common 2D shapes 	 Spots patterns in the environment, beginning to identify the pattern "rule" Chooses familiar objects to create and recreate repeating patterns beyond AB patterns and begins to identify the unit of repeat 	 Enjoys tackling problems involving prediction and discussion of comparisons of length, weight or capacity, paying attention to fairness and accuracy Becomes familiar with measuring tools in everyday experiences and play Is increasingly able to order and sequence events using everyday language related to time Beginning to experience measuring time with timers and calendars 					