



Hemlington Hall Academy

Maths Medium-Term Plan & Small Steps: Reception

Autumn Term



	Getting to Know You	Match, Sort & Compare	Talk About Measure & Patterns	It's Me 1,2,3	Circles & Triangles	1,2,3,4,5	Shapes With 4 Sides	Consolidation
	2 weeks	2 weeks	2 weeks	2 weeks	1 week	2 weeks	1 week	3 weeks
National Curriculum	Development Matters <ul style="list-style-type: none"> Understand how to listen carefully and why listening is important. Listen to and talk about stories to build familiarity and understanding. Build constructive and respectful relationships. Express their feelings and consider the feelings of others. Birth to 5 matters <ul style="list-style-type: none"> R4: Uses language to share feelings, experiences and thoughts 	Development Matters <ul style="list-style-type: none"> Compare numbers. Birth to 5 Matters <ul style="list-style-type: none"> R5: Compares two small groups of up to five objects, saying when there are the same number of objects in each group. 	Development Matters <ul style="list-style-type: none"> Make comparisons between objects relating to size, length, weight and capacity. Birth to 5 Matters <ul style="list-style-type: none"> R4: Explores differences in size, length, weight and capacity. 	Development Matters <ul style="list-style-type: none"> Count objects, actions and sounds. Link the number symbol (numeral) with its cardinal number value. Birth to 5 Matters <ul style="list-style-type: none"> R5: Links numerals with amounts up to 5 and maybe beyond. 	Development Matters <ul style="list-style-type: none"> Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language. Birth to 5 Matters <ul style="list-style-type: none"> Range 6 – Uses informal language and analogies, (e.g. heart-shaped and hand-shaped leaves), as well as mathematical terms to describe shapes 	Development Matters <ul style="list-style-type: none"> Count objects, actions and sounds. Link the number symbol (numeral) with its cardinal number value. Birth to 5 Matters <ul style="list-style-type: none"> R5: Links numerals with amounts up to 5 and maybe beyond. 	Development Matters <ul style="list-style-type: none"> Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language. Birth to 5 Matters <ul style="list-style-type: none"> R6: Uses informal language and analogies, (e.g. heart-shaped and hand-shaped leaves), as well as mathematical terms to describe shapes. 	Use these weeks for extra time for: <ul style="list-style-type: none"> curriculum coverage revisit less secure areas pre-teach for next term extra Number Sense
Small Steps	Number <ul style="list-style-type: none"> Opportunities for settling in, introducing the areas of the provision and getting to know the children. SSM <ul style="list-style-type: none"> Key times of day, class routines. Exploring the provision area inside and out. Where do things belong? Positional language. 	<ul style="list-style-type: none"> Match objects Match pictures and objects Identify a set Sort objects to a type Explore sorting techniques Create sorting rules Compare amounts 	<ul style="list-style-type: none"> Compare size Compare mass Compare capacity Explore simple patterns Copy and continue simple patterns Create simple patterns 	<ul style="list-style-type: none"> Find 1, 2 and 3 Subitise 1, 2 and 3 Represent 1, 2 and 3 1 more 1 less Composition of 1, 2 and 3 	Use Number Sense subitise / composition animations during this block as starters to keep it fresh <ul style="list-style-type: none"> Identify and names circles Identify and name circles Compare circles Compare triangles Shapes in the environment Describe position 	<ul style="list-style-type: none"> Find 4 and 5 Subitise 4 and 5 Represent 4 and 5 1 more 1 less Composition of 4 and 5 Composition of 1 - 5 	Use Number Sense subitise / composition animations during this block as starters to keep it fresh <ul style="list-style-type: none"> Identify and name shapes with 4 sides Combine shapes with 4 sides Shapes in the environment My day and night 	
Enrichment				World Statistics Day				LET Christmas Problems & Puzzles



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Spring Term



	Alive in 5	Mass & Capacity	Growing 6,7,8	Length, Height & Time	Building 9 and 10	Explore 3D Shapes	Consolidation
	2 weeks	1 week	2 weeks	2 weeks	3 weeks	2 weeks	1 week
National Curriculum	Development Matters <ul style="list-style-type: none"> Explore the composition of numbers to 10. Understand the 'one more than/one less than' relationship between consecutive numbers. Count objects, actions and sounds. Subitise. Link the number symbol (numeral) with its cardinal number value. Birth to 5 Matters <ul style="list-style-type: none"> R5: Through play and exploration, beginning to learn that numbers are made up (composed) of smaller numbers • Beginning to use understanding of number to solve practical problems in play and meaningful activities R5: Beginning to recognise that each counting number is one more than the one before R5: Separates a group of three or four objects in different ways, beginning to recognise that the total is still the same 	Development Matters <ul style="list-style-type: none"> Compare length, weight and capacity Birth to 5 Matters <ul style="list-style-type: none"> R6: Enjoys tackling problems involving prediction and discussion of comparisons of length, weight or capacity, paying attention to fairness and accuracy R6: Becomes familiar with measuring tools in everyday experiences and play 	Development Matters <ul style="list-style-type: none"> Explore the composition of numbers to 10. Understand the 'one more than/one less than' relationship between consecutive numbers. Count objects, actions and sounds. Subitise. Link the number symbol (numeral) with its cardinal number value. Birth to 5 Matters <ul style="list-style-type: none"> R5: Through play and exploration, beginning to learn that numbers are made up (composed) of smaller numbers • Beginning to use understanding of number to solve practical problems in play and meaningful activities R5: Beginning to recognise that each counting number is one more than the one before R5: Separates a group of three or four objects in different ways, beginning to recognise that the total is still the same 	Development Matters <ul style="list-style-type: none"> Compare length, weight and capacity Birth to 5 Matters <ul style="list-style-type: none"> R6: Enjoys tackling problems involving prediction and discussion of comparisons of length, weight or capacity, paying attention to fairness and accuracy R6: Becomes familiar with measuring tools in everyday experiences and play 	Development Matters <ul style="list-style-type: none"> Explore the composition of numbers to 10. Understand the 'one more than/one less than' relationship between consecutive numbers. Count objects, actions and sounds. Subitise. Link the number symbol (numeral) with its cardinal number value. Birth to 5 Matters <ul style="list-style-type: none"> R5: Through play and exploration, beginning to learn that numbers are made up (composed) of smaller numbers • Beginning to use understanding of number to solve practical problems in play and meaningful activities R5: Beginning to recognise that each counting number is one more than the one before R5: Separates a group of three or four objects in different ways, beginning to recognise that the total is still the same 	Development Matters <ul style="list-style-type: none"> Continue, copy and create repeating patterns. Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can. Select, rotate and manipulate shapes to develop spatial reasoning skills. Birth to 5 Matters <ul style="list-style-type: none"> R6: Uses informal language and analogies, (e.g. heart-shaped and hand-shaped leaves), as well as mathematical terms to describe shapes R6: Enjoys composing and decomposing shapes, learning which shapes combine to make other shapes 	Use these weeks for extra time for: <ul style="list-style-type: none"> curriculum coverage revisit less secure areas pre-teach for next term extra Number Sense
Small Steps	<ul style="list-style-type: none"> Introduce zero Find 0 to 5 Subitise 0 to 5 Represent 0 to 5 1 more 1 less Composition Conceptual subitising to 5 	Use Number Sense subitise / composition animations during this block as starters to keep it fresh <ul style="list-style-type: none"> Compare mass Find a balance Explore capacity Compare capacity 	<ul style="list-style-type: none"> Find 6, 7 and 8 Represent 6, 7 and 8 1 more 1 less Composition of 6, 7 and 8 Make pairs-odd and even Double to 8 (find a double) Double to 8 (make a double) Combine 2 groups Conceptual subitising 	Use Number Sense subitise / composition animations during this block as starters to keep it fresh <ul style="list-style-type: none"> Explore length Compare length Explore height Compare height Talk about time Order and sequence time 	<ul style="list-style-type: none"> Find 9 and 10 Compare numbers to 10 Represent 9 and 10 Conceptual subitising to 10 1 more 1 less Composition to 10 Bonds to 10 (2 parts) Make arrangements of 10 Bonds to 10 (3 parts) Doubles to 10 (find a double) Explore even and odd 	Use Number Sense subitise / composition animations during this block as starters to keep it fresh <ul style="list-style-type: none"> Recognise and name 3-D shapes Find 2-D shapes within 3-D shapes Use 3-D shapes for tasks 3-D shapes in the environment Identify more complex patterns Copy and continue patterns Patterns in the environment 	
Enrichment		International Puzzle Day	NSPCC Number Day		World Maths Day		LET Easter Problems & Puzzles



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Summer Term



	To 20 And Beyond	How many Now?	Manipulate, Compose & Decompose	Sharing & Grouping	Visualise, Build & Map	Make Connections	Consolidation
	2 weeks	1 week	2 weeks	2 weeks	3 weeks	1 week	1 week
National Curriculum	Development Matters <ul style="list-style-type: none"> Count beyond ten. Count objects, actions and sounds. Link the number symbol (numeral) with its cardinal number value. Birth to 5 Matters <ul style="list-style-type: none"> R6: Shows awareness that numbers are made up (composed) of smaller numbers, exploring partitioning in different ways with a wide range of objects R6: 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 R6: In practical activities, adds one and subtracts one with numbers to 10 	Development Matters <ul style="list-style-type: none"> Understand the 'one more than/one less than' relationship between consecutive numbers. Count objects, actions and sounds. Birth to 5 Matters <ul style="list-style-type: none"> R6: In practical activities, adds one and subtracts one with numbers to 10 	Development Matters <ul style="list-style-type: none"> Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can. Select, rotate and manipulate shapes to develop spatial reasoning skills. Birth to 5 Matters <ul style="list-style-type: none"> R6: Uses informal language and analogies, (e.g. heart-shaped and hand-shaped leaves), as well as mathematical terms to describe shapes R6: Enjoys composing and decomposing shapes, learning which shapes combine to make other shapes 	Development Matters <ul style="list-style-type: none"> Count beyond ten. Count objects, actions and sounds. Link the number symbol (numeral) with its cardinal number value. Birth to 5 Matters <ul style="list-style-type: none"> R6: Shows awareness that numbers are made up (composed) of smaller numbers, exploring partitioning in different ways with a wide range of objects R6: 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 R6: In practical activities, adds one and subtracts one with numbers to 10 	Development Matters <ul style="list-style-type: none"> Continue, copy and create repeating patterns. Birth to 5 Matters <ul style="list-style-type: none"> R6: Spots patterns in the environment, beginning to identify the pattern "rule" R6: Chooses familiar objects to create and recreate repeating patterns beyond AB patterns and begins to identify the unit of repeat 	Development Matters <ul style="list-style-type: none"> Continue, copy and create repeating patterns. Birth to 5 Matters <ul style="list-style-type: none"> R6: Spots patterns in the environment, beginning to identify the pattern "rule" R6: Chooses familiar objects to create and recreate repeating patterns beyond AB patterns and begins to identify the unit of repeat 	Use these weeks for extra time for: <ul style="list-style-type: none"> curriculum coverage revisit less secure areas pre-teach for next term extra Number Sense
Small Steps	<ul style="list-style-type: none"> Build numbers beyond 10 (10-13) Continue patterns beyond 10 (10-13) Build numbers beyond 10 (14-20) Continue patterns beyond 10 (14-20) Verbal counting beyond 20 Verbal counting patterns 	Use Number Sense subitise / composition animations during this block as starters to keep it fresh <ul style="list-style-type: none"> Add more How many did I add? Take away How many did I take away? 	Use Number Sense subitise / composition animations during this block as starters to keep it fresh <ul style="list-style-type: none"> Select shapes for a purpose Rotate shapes Manipulate shapes Explain shape arrangements Compose shapes Decompose shapes Copy 2-D shape pictures Find 2-D shapes within 3-D shapes 	Use Number Sense subitise / composition animations during this block as starters to keep it fresh <ul style="list-style-type: none"> Explore sharing Sharing Explore grouping Grouping Even and odd sharing Play with and build doubles 	Use Number Sense subitise / composition animations during this block as starters to keep it fresh <ul style="list-style-type: none"> Identify units of repeating patterns Create own pattern rules Explore own pattern rules Replicate and build scenes and constructions Visualise from different positions Describe positions Give instructions to build Explore mapping Represent maps with models Create own maps from familiar places Create own maps and plans from story situations 	Use Number Sense subitise / composition animations during this block as starters to keep it fresh <ul style="list-style-type: none"> Deepen understanding Patterns and relationships 	
Enrichment		Women in Maths Day	National Numeracy Day		Alan Turing Day (LET Summer Problems & Puzzles