

Reception MATHS experiences taken from Development Matters: Non-statutory curriculum guidance for the Early Years Foundation Stage Reception (end-of-year expectations) EARLY LEARING GOALS NUMBER Have a deep understanding of number to 10, including the composition of • Count objects, actions and sounds. . each number. Subitise (recognize quantities without counting). Subitise (recognise quantities without counting) up to 5. Link the number symbol (numeral) with its cardinal number value. Automatically recall (without reference to rhymes, counting or other aids) Count beyond ten. number bonds up to 5 (including subtraction facts) and some number bonds Compare numbers. to 10, including double facts. Understand the 'one more than/one less than' relationship between Verbally count beyond 20, recognising the pattern of the counting system. • consecutive numbers. Compare quantities up to 10 in different contexts, recognising when one Explore the composition of numbers to 10. quantity is greater than, less than or the same as the other quantity. . Automatically recall number bonds for numbers 0-5 and some to 10. Explore and represent patterns within numbers up to 10 including evens and SHAPE AND MEASURE odds, double facts and how quantities can be distributed equally. Select, rotate and manipulate shapes to develop spatial reasoning skills. Compose and decompose shapes so that children recognise a shape can ٠ have other shapes within it, just as numbers can. NUMERICAL PATTERNS Continue, copy and create repeating patterns. . Compare length, weight and capacity. ٠ NUMBER

AUTUMN	SPRING	SUMMER
CURRICULUM LEARNING ACTIVITIES that support pupils to: Autumn 1 • <u>Numbers 1, 2, 3, 4 and 5</u> : • numberness, numerals	CURRICULUM LEARNING ACTIVITIES that support pupils to: Spring 1 • Numbers 6, 7 and 8. • Numberness numeral, half and double facts, one	CURRICULUM LEARNING ACTIVITIES that support pupils to: Summer 1 • Recap numbers 1 to 10. • Numbers 11 to 15.
 counting to 1, 2, 3, 4 and 5 deep understanding of number and composition of each number subitise (recognise quantities without counting) of each number recognise the pattern of the counting system 	 more/less. Add and subtract using counters/objects Money making different amounts - compare, more/fewer Subitise 	 Numberness: numeral. Adding and subtraction by counting on and counting back. Doubling Halving and sharing Odds and evens
 up to each number. <u>Groups within 5</u>: comparing quantities of identical objects comparing quantities of non- identical objects 	 Spring 2 Numbers 9 and 10. Numberness numeral, half and double facts, one more/less. Using a ten frame 	 ELG: Have a deep understanding of number to 10, including the composition of each number; ELG: Subitise (recognise quantities without counting) up to 5; ELG: Automatically recall (without reference to
Autumn 2	 The part-whole model to 10 Subtraction Subitise ASSESSMENT CHECKPOINTS – look and listen for pupils to: Count 1:1 to 10. Order numbers to 10. 	 rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts. Summer 2 Numbers 16-20. Adding and subtraction by counting on and back.



of each number • recognise the pattern of the counting system up to each number • One more / One less to 5 • Introducing the part-whole model for number bonds up to 5 • Add and subtract using counters/objects • Money: 1p, 2p and 5p coins ASSESSMENT CHECKPOINTS – look and listen for pupils to: • Subitise to 5. • Count 1:1 to 5. • Match numeral and quantity to 5. • Say one more and one less to 5. • Make up to 5 in different ways using a part whole model and say the corresponding number sentence. • Identify a 1p 2p and 5p coin and say its value. • Add and subtract within 5 using counters.	 Subitise Match numeral and quantity to 10. Say one more and one less to 10. Make up to 10 in different ways using a part whole model and say the corresponding number sentence. Add and subtract within 10 using counters. Count on from a given number starting within 10. Make different amounts using 1p, 2p and 5p coins. 	 Grouping. Problem solving. ELG: Have a deep understanding of number to 10, including the composition of each number; ELG: Subitise (recognise quantities without counting) up to 5; ELG: 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. Assessment CHECKPOINTS – look and listen for pupils to: Automatically recalls number bonds to 5. Automatically recalls some number bonds to 10. Knows double facts to 10. Recall some subtraction facts within 10. Use this knowledge to solve problems within 10. ELG: Have a deep understanding of number to 10, including the composition of each number; ELG: Subitise (recognise quantities without counting) up to 5; ELG: Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number to 10, including the color solve problems within 10. ELG: Subitise (recognise quantities without counting) up to 5; ELG: 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.
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VOCABULARY:

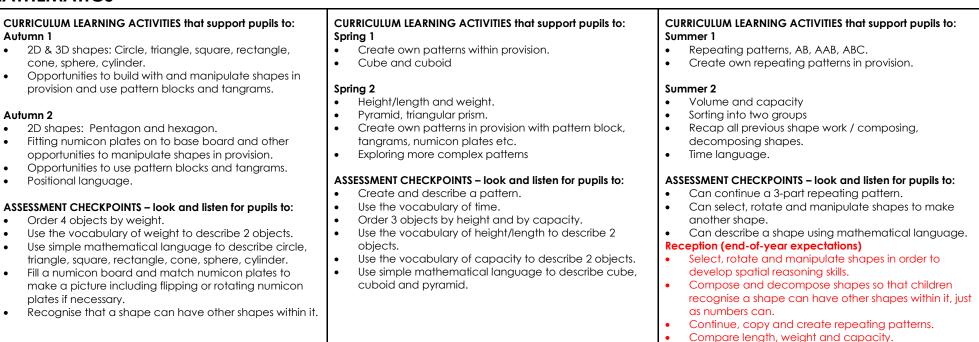
Number, zero...twenty, none, how many? count (up, to, from, back), is the same as, more, less, as many as, same number as, equal, equal to, more than, larger, bigger, greater, most, biggest, largest, greatest, fewer, smaller, less, fewest, smallest, least, one more, one less, compare, order, first...twentieth, last, last but one, before, after, next, between, the same as, more, less, as many as, same number as, equal, equal to, more, larger, bigger, greater, most, biggest, largest, greatest, fewer, smaller, less, fewest, smallest, least, odd, even, Parts of a whole, half, add, more, and make, sum, total, altogether, take away, how many left?

SHAPE AND MEASURE

Reception (end-of-year expectations)

- Select, rotate and manipulate shapes in order to develop spatial reasoning skills.
- Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can.
- Continue, copy and create repeating patterns.
- Compare length, weight and capacity.

AUTUMN	SPRING	SUMMER	
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VOCABULARY:

Weigh, balances, heavy, light, heavier than, lighter than, heaviest, lightest, scales. Size, compare, guess, estimate, enough, not enough, too much, too little, too many, too few, nearly, close to, about the same as. Length, height, width, depth, long, short, tall, high, low, wide, narrow, thick, thin, longer, shorter, taller, higher, longest, shortest, tallest, highest, far, near, close, measure. Sides, corners, straight, round, edges, curved, face.

NUMERICAL PATTERNS

Reception (end-of-year expectations)

• Notice patterns and arrange things in patterns.

EARLY LEARNING GOAL

- 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 evenly.

AUTUMN	SPRING	SUMMER
 CURRICULUM LEARNING ACTIVITIES that support pupils to: Autumn 1 Comparing groups. Oral counting to 10/20. Numbers 1-4 half and double facts. Autumn 2	 CURRICULUM LEARNING ACTIVITIES that support pupils to: Spring 1 Oral counting to and back from 20 starting at different numbers. Comparing quantities. Spring 2 	 CURRICULUM LEARNING ACTIVITIES that support pupils to: Summer 1 Oral counting in 2s and 10s. Comparing quantities. Counting and patterns beyond 10. Odd and even numbers Sharing evenly between 2 groups



 Oral counting to and back from 20. Numbers 5 - half and double facts. ASSESSMENT CHECKPOINTS - look and listen for pupils to: Can orally count to 10. Can work out doubles and halves to 5 	 Oral counting to 30,40.50 Equal/not equal. ASSESSMENT CHECKPOINTS – look and listen for pupils to: Can orally count to 20. Knows double facts to 6 and can work them out to 10. Can work out if a number to 10 is odd or even. 	 Numbers 6, 7 and 8 half and double facts. Numbers 9 and 10 half and double facts. Odd and even numbers using numicon plates. ELG: Verbally count beyond 20, recognising the pattern of the counting system; ELG: Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity; ELG: Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.
		 Summer 2 Sharing evenly between 2 groups Problem solving by sharing Time ELG: Verbally count beyond 20, recognising the pattern of the counting system; ELG: Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity; ELG: Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.
		 ASSESSMENT CHECKPOINTS - look and listen for pupils to: Can orally count to 50. Can compare quantities to 10 recognising when the quantity is the same, greater than or less than. Can identify odd and even numbers to 10. Knows double facts to 10. Can share evenly between 2, 3 or 4 groups. ELG: Verbally count beyond 20, recognising the pattern of the counting system; ELG: Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity; ELG: Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.

Vocabulary:

Compare, the same as, more, less, as many as, same number as, equal, equal to, more, larger, bigger, greater, most, biggest, largest, greatest, fewer, smaller, less, fewest, smallest, least, odd, even, pattern, pair, ones, tens, digit.