

Barnes Infant Academy
Road Map for Mathematics



	<u>Autumn</u>	<u>Spring</u>	<u>Summer</u>
<u>Nursery</u>	<ul style="list-style-type: none"> -What the amounts look like- counting and collecting sets up to 3. -Using numbers in counting rhymes and games. -Exposure to the use number names and mathematical based activities in provision. 	<ul style="list-style-type: none"> - Subitise up to 3 objects (<i>recognition without counting</i>) -Know the last number reached when counting a small set of objects and tell you how many in total up to 3 Cardinality - Begin to compare quantities using language 'more than' and 'fewer than' in familiar contexts e.g. in stories like 'The Enormous Turnip' 	<ul style="list-style-type: none"> - Recite numbers past 5. - Link numerals and amounts showing the right number of objects to match the numeral up to 5. -Show 'finger numbers' up to 5 - Solve real world mathematical problems with numbers up to 5. - Experiment with their own symbols and marks as well as numerals.
<u>Reception</u>	<ul style="list-style-type: none"> - Identify when a set can be subitised and when counting is needed. - connect the counting sequence to the staircase pattern (<i>1 more is added each time</i>). - Cardinality 1 to 1 correspondence when counting objects, actions and sounds. - Compare sets by matching. 	<ul style="list-style-type: none"> -Subitising within and beyond 5. -To count up to 5 then up to 10 accurately - Verbally count beyond 20 - Order numerals and sets of objects. - Composition- missing part within 5, odds and evens, doubles. -Compare equal and unequal groups 	<ul style="list-style-type: none"> - Subitising 1 more and doubles. - Cardinality - Verbally count beyond 20. Different starting points. - Develop accuracy in counting. -Composition of numbers to 10. -Compare -Order sets of objects linking to understanding of the number system.
<u>Year 1</u>	<ul style="list-style-type: none"> -Place value within 10 -Addition and subtraction up to 5 	<ul style="list-style-type: none"> -Addition and subtraction within 10 -Place value within 20 -Addition and subtraction within 20 - Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations. 	<ul style="list-style-type: none"> -Place value up to 50 -Securing addition and subtraction up to 20 - Fractions recognise, find and name a half and one quarter as equal parts of an object, shape or quantity. -Multiplication and division Introduction to equal groups and sharing
<u>Year 2</u>	<ul style="list-style-type: none"> - Place value within 100 - Secure number bonds up to 10 - Addition and subtraction within 20 - Count forwards and backwards in steps of 2, 5 and 10. 	<ul style="list-style-type: none"> -Addition and subtraction of two 2-digit numbers. -understanding of the commutative law- addition can be done in any order but addition cannot. -Structures of multiplication and division. 	<ul style="list-style-type: none"> - Recognise, find, name and write fractions 1/2, 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity. -Addition and subtraction of two 2-digit numbers in the context of measures. -Recall some multiplication and division facts for 2, 5 and 10 times tables.