



THURGOLAND

CHURCH OF ENGLAND PRIMARY SCHOOL



LEARNING TOGETHER
IN FAITH & JOY

EYFS – Discrete Mathematical Knowledge

<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer 1</u>	<u>Summer 2</u>
I know how to subitise 1.	I know how to recite numbers past 5.	I know how to subitise 4.	I know how to order numbers by 1 more than the other.	I know how to count things that cannot be seen.	I know my number bonds to 5.
I know how to subitise 2.	I know the composition of 3 (3-0, 1-2, 2-1, 0-3)	I know how to subitise 5.	I know how to order numbers to 8.	I know how to subitise to 5.	I can automatically recall number bonds for numbers 0–5 and some to 10.
I know how to subitise 3.	I know the composition of 4 (0-4, 1-3, 2-2, 3-1, 4-0)	I know the die patterns for the number 4.	I know how to use less than to compare numbers smaller.	I know how to count actions.	<i>I know some double facts.</i>
I know how to recite numbers 1,2,3,4,5	I know the composition of the number 5 (0-5, 1-4, 2-3, 3-2, 4-1, 5-0)	I know the die patterns for number 5.	I know some numbers can be doubled (2 equal parts).	I know how to count sounds.	I know the composition of all numbers up to 10.
I know all numbers are made up of 1's.	I know how to compare using more than, less than.	I know how to match numerals to quantities within 5.	I know odd numbers end in 1, 3, 5, 7, 9	I know the 'one more than/one less than' relationship between consecutive numbers.	I know how to compare length using taller and shorter.
I know the composition of 3 (3-0, 1-2, 2-1, 0-3)	I know equal means the same.	I know how to count with ordinality.	I know even numbers end in 2, 4, 6, 8, 0.	I know how to subitise 6.	I know how to compare weight.
I know the composition of 4 (0-4, 1-3, 2-2, 3-1, 4-0)	I know a whole is altogether.	I know each number is one more than the previous number within 10.	I know a sphere is a 3D shape.	I know the composition of numbers more than 5 to be 5 and a bit.	I know how to compare capacity.
I know how to say one number for each item in order: 1,2,3,4,5. (1:1 counting)	I know part is only a part of the whole.	I know 6 is 5 and 1 more (a bit).	I know a cube is a 3D shape.	I know the composition of the number 10.	I know how to select, rotate and manipulate shapes so that I develop my spatial reasoning skills.
I know the link between numerals and amounts: for example, showing the right number of objects to		I know 7 is 5 and 2 more (a bit).			

<p>match the numeral, up to 5.</p> <p>I know how to show 'finger numbers' up to 5.</p> <p>I know how to compare sets using looking.</p> <p>I know how to compare using language 'more than/fewer than'.</p> <p>I know what a circle is.</p> <p>I know what a triangle is.</p>	<p>I know how to count objects.</p> <p>I know how to match numerals to quantities within 10.</p> <p>I know how to count verbally beyond 20.</p> <p>I know how to compare using heavy and lighter.</p> <p>I know how to compare size using taller and shorter.</p> <p>I know how to make a pattern.</p> <p>I know a rectangle has 4 sides.</p> <p>I know a square has 4 sides.</p>	<p>I know how to make sets equal by counting.</p>	<p>I know a cuboid is a 3D shape.</p> <p>I know 3D shapes in everyday objects.</p> <p>I know how to rotate a shape.</p> <p>I know how to make a 2D shape.</p> <p>I know 2D shapes can be found in 3D shapes.</p> <p>I know the link between the number symbol (numeral) with its cardinal number value.</p> <p>I know which shapes to use appropriately: flat surfaces for building, a triangular prism for a roof, etc.</p> <p>I know how to combine shapes to make new ones – an arch, a bigger triangle, etc.</p>	<p><i>I know the composition of each number 1-10.</i></p> <p>I know my number bonds to 10.</p> <p>I know to compare mass using heavier and lighter.</p> <p>I know a balanced scale means they weigh the same.</p> <p>I know to use full and empty to describe capacity.</p> <p>I know how to make comparisons between objects relating to size.</p> <p>I know how to make comparisons between objects relating to length.</p> <p>I know how to make comparisons between objects relating to weight.</p> <p>I know how to make comparisons between objects relating to capacity.</p>	<p>I know how to compose and decompose shapes so that I recognise a shape can have other shapes within it, just as numbers can.</p> <p>I know how to continue, copy and create repeating patterns.</p> <p>I know how to count beyond ten.</p>
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Year 1 – Discrete Mathematical Knowledge

<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer 1</u>	<u>Summer 2</u>
<p>I know how to count forwards and backwards in ones to 10 starting from any number.</p> <p>I know how to find 1 more and 1 less of a number up to 10.</p> <p>I know number pairs to 10.</p> <p>I know numbers bonds to 10.</p> <p>I know how to use more than and less than so I can compare numbers to up 10.</p> <p>I know how to read numbers up to 10.</p>	<p>I know the 2D shapes: rectangle, square, circle and triangle.</p> <p>I know the 3D shapes: cube, cuboid, pyramids and spheres so I can say their properties (number of faces, edges and vertices).</p> <p>I know how to count forwards and backwards in ones to 20 starting from any number.</p> <p>I know 1 more and 1 less of any number up to 20.</p> <p>I know how to use more than and less than so I can compare numbers up to 20.</p> <p>I know how to read numbers up to 20.</p>	<p>I know number bonds within 20.</p> <p>I know number pairs to 20.</p> <p>I know how to count forwards and backwards to 50 in ones starting from any number.</p> <p>I know 1 more and 1 less of any number up to 50.</p> <p>I know how to count in multiples of 2.</p> <p>I know how to count in multiples of 5.</p> <p>I know how to count in multiples of 10.</p> <p>I know how to read numbers up to 50.</p> <p>I know odd numbers up to 20.</p> <p>I know even numbers up to 20.</p>	<p>I know 1 more and 1 less for numbers up to 50.</p> <p>I know how to count in multiples of 2.</p> <p>I know how to count in multiples of 5.</p> <p>I know how to count in multiples of 10.</p> <p>I know to measure larger objects in m.</p> <p>I know to measure smaller objects in cm.</p> <p>I know to weigh larger objects in KG.</p> <p>I know to weigh smaller objects in g.</p> <p>I know to measure larger amounts of fluid in litres.</p> <p>I know to measure smaller amounts of fluid in ml.</p>	<p>I know how to count in multiples of 2.</p> <p>I know how to count in multiples of 5.</p> <p>I know how to count in multiples of 10.</p> <p>I know the doubles of number up to 10.</p> <p>I know the half of even numbers up to 10.</p> <p>I know a half is 2 equal parts of a whole, shape or quantity.</p> <p>I know a quarter is four equal parts of a whole, shape or quantity.</p> <p>I know 4 quarter turns make a whole.</p>	<p>I know how to count forwards and backwards in ones to 100, starting from any number.</p> <p>I know 1 more and 1 less of any number up to 100.</p> <p>I know how to read numbers to 100.</p> <p>I know the worth of coins in pence or pound.</p> <p>I know there are 7 days in a week.</p> <p>I know there are 4 weeks in a month.</p> <p>I know there are 12 months in a year.</p> <p>I know time is measured in seconds, minutes or hours.</p>

