



Year 4 – 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 in multiples of 6, 7, 9, 25 and 1000's.</p> <p>I know roman numerals to 100.</p> <p>I know a 5-digit number is made up of ten thousands, thousands, hundreds, tens and ones.</p> <p>I know doubles of numbers up to 50,</p> <p>I know the half of even numbers up to 50.</p> <p>I know timestables for 1, 2, 3, 4, 5, 6, 7, 8 9.</p> <p>I know related facts for addition and subtraction.</p> <p>I know number bonds for 10.</p> <p>I know number bonds for 20.</p> <p>I know number bonds for 100.</p> <p>I know number bonds for 1000.</p>	<p>I know timestables for 1, 2, 3, 4, 5, 6, 7, 8 9</p> <p>I know perimeter is length x width.</p> <p>I know a factor is a whole number that multiplies by another number to make a product. Factor x factor = product</p> <p>I know factor pairs of multiples up to 12x.</p> <p>I know grouping means equal groups.</p> <p>I know sharing is dividing into equal groups.</p> <p>I know dividing and multiplying by 1 the number stays the same.</p> <p>I know dividing and multiplying by 0 will always equal 0.</p>	<p>I know multiplying by 3 is called the associative law.</p> <p>I know factor pairs of multiples up to 12x.</p> <p>I know area is the amount of space that is taken up by a 2D shape or surface.</p> <p>I know timestables up to 12x.</p> <p>I know there is 10mm in 1cm.</p> <p>I know there are 100cm in 1m.</p> <p>I know there are 1000m in 1km.</p>	<p>I know a fraction is a part of a whole.</p> <p>I know a numerator is part of the whole.</p> <p>I know the denominator is the number of parts that make the whole.</p> <p>I know a unit fraction has a 1 for a numerator.</p> <p>I know a non-unit fraction has a number larger than 1 for the numerator.</p> <p>I know a mixed number is a whole and fraction.</p> <p>I know an improper fraction has a numerator larger than the denominator.</p> <p>I know that ten hundredths are equivalent to one tenth.</p> <p>I know tenths and hundredths as decimals.</p> <p>I know timestables up to 12x.</p> <p>I know ten tenths make 1 whole.</p> <p>I know 10 hundredths make 1.</p> <p>I know equivalent fractions are the same.</p>	<p>I know there are 100 pennies in £1.</p> <p>I know there are ten 10ps in £1.</p> <p>I know there are 60 minutes in 1 hour.</p> <p>I know there are 60 seconds in 1 minute.</p> <p>I know there are 24 hours in a day.</p> <p>I know there are 12 months in a year.</p> <p>I know there are 7 days in 1 week.</p> <p>I know timestables up to 12x.</p>	<p>I know timestables up to 12x.</p> <p>I know the x axis runs across the bottom of a graph.</p> <p>I know coordinates are written x axis then y axis.</p> <p>I know the y axis runs vertically up the side of a graph.</p> <p>I know a right angle is 90 degrees.</p> <p>I know an acute angle is smaller than 90 degrees.</p> <p>I know an obtuse angle is between 90 and 180 degrees.</p> <p>I know a polygon is a 2D shape closed with straight sides.</p> <p>I know triangles: scalene, isosceles and equilateral so I can describe their properties.</p> <p>I know 2D shapes: trapezium, square, rhombus, rectangle and parallelogram so I can describe their properties.</p> <p>I know parallel lines stays the same distance from each other.</p> <p>I know perpendicular are lines that cross each other at 90 degrees.</p>



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