



# Barford St. Peter's C.E. (V.A.) Primary School



Together we love; together we learn

## Maths Knowledge and Skills Progression for: ALGEBRA

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Equations	<ul style="list-style-type: none"> <li>know number bonds to 10</li> </ul>	<ul style="list-style-type: none"> <li>solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as <math>7 = ? - 9</math></li> <li>represent and use number bonds and related subtraction facts within 20</li> </ul>	<ul style="list-style-type: none"> <li>recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.</li> <li>recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100</li> </ul>	<ul style="list-style-type: none"> <li>solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> <li>solve problems, including missing number problems, involving multiplication and division, including integer scaling</li> </ul>		<ul style="list-style-type: none"> <li>use the properties of rectangles to deduce related facts and find missing lengths and angles</li> </ul>	<ul style="list-style-type: none"> <li>express missing number problems algebraically</li> <li>find pairs of numbers that satisfy number sentences involving two unknowns</li> <li>enumerate all possibilities of combinations of two variables</li> </ul>
Formulae					<ul style="list-style-type: none"> <li>Perimeter can be expressed algebraically as <math>2(a + b)</math> where <math>a</math> and <math>b</math> are the dimensions in the same unit.</li> </ul>		<ul style="list-style-type: none"> <li>use simple formulae</li> <li>recognise when it is possible to use formulae for area and volume of shapes</li> </ul>
Sequences	<ul style="list-style-type: none"> <li>look for patterns and relationships, spot connections</li> </ul>	<ul style="list-style-type: none"> <li>sequence events in chronological order using language such as: before and after, today, yesterday, tomorrow, morning, afternoon and evening</li> </ul>	<ul style="list-style-type: none"> <li>compare and sequence intervals of time</li> <li>order and arrange combinations of mathematical objects in patterns</li> </ul>				<ul style="list-style-type: none"> <li>generate and describe linear number sequences</li> </ul>