

# Subject: Mathematics

# Year 7

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>What are we studying? (Big idea/question(s))</b>					
<ul style="list-style-type: none"> <li>Sequences</li> <li>Understanding and using algebraic notation</li> <li>Equality and equivalence</li> </ul>	<ul style="list-style-type: none"> <li>Place value and ordering integers and decimals</li> <li>Fraction, decimal and percentage equivalence</li> </ul>	<ul style="list-style-type: none"> <li>Solving problems with addition and subtraction</li> <li>Solving problems with multiplication and division</li> </ul>	<ul style="list-style-type: none"> <li>Four operations with directed number</li> <li>Addition and subtraction of fractions</li> </ul>	<ul style="list-style-type: none"> <li>Constructing, measuring and using geometric notation</li> <li>Developing geometric reasoning</li> </ul>	<ul style="list-style-type: none"> <li>Developing number sense</li> <li>Sets and probability</li> <li>Prime numbers and proof</li> </ul>

<b>Why are we studying this? (skills, purpose or progression)</b>					
To be introduced to algebra – the basis of generalising and finding patterns/ formulae within mathematics.	To be able to manipulate numbers. To be able to apply mathematics in different contexts and situations.	To be able to manipulate numbers. To be able to apply mathematics in different contexts and situations.	To be able to manipulate numbers. To be able to apply mathematics in different contexts and situations.	To be able to apply mathematics in different contexts and situations.	To be able to apply mathematics in different contexts and situations. To begin to understand proof – a key part of mathematics.

These mathematics skills include problem solving, building resilience and independent thinking. These are crucial skills for the work place and further education.

<b>How will this be assessed?</b>
We assess pupils regularly through the work produced in lessons. At the end of a block of teaching, pupils will complete a small assessment to check understanding. Pupils will complete a RAG analysis, highlighting strengths and areas that need more time. This will then feed into future lessons and what we set for homework. Pupils will complete a mid-year examination after the first term and an end-of-year examination during the Summer 2 half term.

<b>RWCM</b>	Reading the question carefully and underlining key words and important information. Deciphering a block of text to decide what mathematics to use.
<b>Extra-curricular experiences</b>	Junior Maths Challenge – a national competition run by the university of Leeds.
<b>Careers Links</b>	Financial careers (eg. Accountancy and banking), engineering, ICT roles, statistician, economist,...
<b>Independent Learning</b>	Sparx Maths will be set weekly on consolidation and areas that have been highlighted from our assessments. These will be completed online ( <a href="http://www.sparxmaths.uk">www.sparxmaths.uk</a> ) and the students will make notes in their homework books.
<b>Essential Equipment</b>	Basic school equipment (pen, pencil, ruler, eraser, green pen) and a <b>scientific calculator</b> .