

## Maths @ WBS Year 7 Roadmap

**Subject Aim:** To begin gaining mastery of the fundamental foundations of mathematics, expanding on ideas from Key Stage 2, and developing techniques for answering more challenging questions involving problem solving.

Arriving in year 7		Curriculum and Assessment		
<p>When you start secondary school maths, we teach you in mixed attainment groups. We assess you regularly throughout the first term to ensure that when we set you after Christmas, everyone is in a set which has the right balance of challenge and support.</p>		<p>Our <b>Scheme of Learning</b> is split into two parts: Core and Advanced. A third Support strand consists of the more accessible elements of the Core Scheme of Learning. Your teachers will start with the more accessible parts of content and stretch your group as far as they can in the time available.</p> <p>You will have <b>regular assessments</b>, covering several units, building up your experience with cumulative exams and well as encouraging your retrieval of previously studied topics.</p>		
Autumn Term	<b>PLACE VALUE &amp; DECIMALS</b>			
	<ul style="list-style-type: none"> <li>Types of Decimals</li> <li>Comparing Decimals &amp; Fractions</li> <li>Rounding</li> </ul>			
	<b>CALCULATION METHODS</b>			
Autumn Term	<ul style="list-style-type: none"> <li>Calculating efficiently</li> <li>Fractions to Decimals</li> <li>Mental &amp; Written Methods</li> </ul>			
	<b>NEGATIVE NUMBERS</b>	Support	Core	Advanced
	<ul style="list-style-type: none"> <li>Order Negative Numbers</li> <li>4 Operations with Negatives</li> <li>Negative Decimals</li> </ul>	Aimed at building confidence and enabling all students to make progress with additional encouragement and support.	Enabling students to consolidate their existing knowledge as well as stretch themselves towards deeper thinking.	Taking all opportunities to challenge students' mathematical thinking and problem solving skills.
Spring Term	<b>FRACTIONS &amp; DECIMALS</b>			
	<ul style="list-style-type: none"> <li>Representing Fractions</li> <li>Calculations with Fractions</li> <li>Reciprocals</li> </ul>			
	<b>INDICES</b>			
	<ul style="list-style-type: none"> <li>Square &amp; Cube Numbers</li> <li>Higher Powers</li> <li>Order of Operations</li> </ul>			
Spring Term	<b>INTRODUCTION TO ALGEBRA</b>			
	<ul style="list-style-type: none"> <li>Algebraic Language</li> <li>Simplifying Algebra</li> <li>Solving Equations</li> </ul>			
	<b>WORKING WITH MEASURES</b>			
Summer Term	<ul style="list-style-type: none"> <li>Converting Units of Length</li> <li>Perimeter of Shapes</li> <li>Time</li> </ul>			
	<b>Where Next?</b>			
<p>In Year 8, you will learn more about all of these topics, as we explore algebra in more depth, learn to solve geometric problems and are introduced to the wonders of statistics!</p>		<p>In Year 7 <b>enrichment</b> opportunities include taking part in the Junior Maths Challenge in the Spring Term. Students with a passion for maths are encouraged to attend Problem Solving club to share their enthusiasm and develop their mathematical reasoning skills.</p>		
<b>Homework and Revision</b>				
		<p><b>Homework</b> is set and completed on Dr Frost. You will have a feedback task in lesson based on how your class did before your next assessment.</p> <p>Our Scheme of Learning is on Dr Frost to help you revise.</p> <p>Prior knowledge checks, progress checks and test reviews will help you identify your strengths and work on the areas you find more challenging.</p> <p>Retrieval starters give you regular opportunities to recall topics previously learnt.</p>		
		<b>Enrichment</b>		