

Curriculum Map

Maths Nurture Groups A, B & C : 2020-2021



The nature of our context means that many of our students have either been alienated from learning within or from mainstream classrooms and often both. Their grasp of mathematical concepts is often patchy and their fluency is invariably poor. They lack confidence and typically are convinced that they can't do maths. Our aim is to bolster confidence by ensuring that they can do maths. This, by definition, means that their learning will be individualised as we plug the gaps as we identify them. While this map outlines a broad journey that all of the students will embark on, there will be many diversions along the way. And everyone will travel at different speeds.

Terms	Knowledge	Skills (Numeracy, Exam skills, Challenging, AOs)	Understanding
Autumn Term 1	Number Shapes and Area	Looking for patterns Solving problems Fluency Risk-taking Learning from mistakes Knowing the world through number BODMAS Multiplying Dividing Negative numbers LCM and HCF Fractions Decimals Rounding Estimating Perimeter and area Volume Circles 3D shapes Prime numbers	Baseline Oak 1

		<p>AO1: Use and apply standard techniques.</p> <p>AO2: Reason, interpret and communicate mathematically.</p> <p>AO3: Solve problems within mathematics and in other contexts.</p>	
Autumn Term 2	<p>Graphs</p> <p>Probability and Statistics</p>	<p>Looking for patterns</p> <p>Solving problems</p> <p>Fluency</p> <p>Risk-taking</p> <p>Learning from mistakes</p> <p>Knowing the world through number</p> <p>Probability</p> <p>Mean, median, mode and range</p> <p>Co-ordinates</p> <p>Simple graphs</p> <p>Pie charts</p> <p>Scatter graphs</p> <p>Straight line graphs</p> <p>AO1: Use and apply standard techniques.</p> <p>AO2: Reason, interpret and communicate mathematically.</p> <p>AO3: Solve problems within mathematics and in other contexts.</p>	<p>Functional Skills Level 1</p> <p>Oak 2</p>
Spring Term 1	Angles and Geometry	Looking for patterns	Functional Skills Level 2

	Ratio, Proportion and Rates of Change	<p>Solving problems Fluency Risk-taking Learning from mistakes Knowing the world through number</p> <p>Angle basics Parallel lines Triangles Ratio Direct proportion Percentages Unit conversions Area and volume conversions Time intervals</p> <p>Bearings Pythagoras</p> <p>AO1: Use and apply standard techniques. AO2: Reason, interpret and communicate mathematically. AO3: Solve problems within mathematics and in other contexts.</p>	Oak 3
Spring Term 2	Algebra Revision	<p>Looking for patterns Solving problems Fluency Risk-taking Learning from mistakes Knowing the world through number</p>	GCSE Practice Papers Oak 4

		Algebra – simplifying Algebra – Multiplying and Dividing Factorising Rearranging formulae AO1: Use and apply standard techniques. AO2: Reason, interpret and communicate mathematically. AO3: Solve problems within mathematics and in other contexts.	
Summer Term	Exams	Exams	Exams

Knowledge: What content do students need to know

Skills: What cognitive skills are learned/used and are they being developed sequentially?

Understanding: How will you know that students have been successful and that the knowledge and skills have impact?