

Mathematics at Samuel Whitbread Academy
Curriculum Sequencing

Year 12:

Course	Year	Term	Big Ideas	Subject Learning Checklist
<i>A Level Mathematics</i>	12	Term 1 63	Pure Mechanics	Algebra and Functions Coordinate Geometry Vectors Kinematics Forces and Newton's Laws
		Term 2 54	Pure Statistics Mechanics	Differentiation Integration Trigonometry Exponentials and Logarithms Proof Sampling Data Presentation and interpretation Probability Statistical Distributions Variable Acceleration
		Term 3 54	Pure Statistics Mechanics	Sequences and Series Hypothesis Testing Data presentation and Interpretation Probability Distributions Moments Projectiles Friction

Year 13:

Course	Year	Term	Big Ideas	Subject Learning Checklist
<i>Insert course name</i>	13	Term 1 <i>63</i>	<i>Pure</i> <i>Mechanics</i> <i>Statistics</i>	Radians Geometry Trigonometric functions Equations and identities Parametric equations Differentiation Sequences and series Moments Forces and friction
		Term 2 <i>54</i>	<i>Pure</i> <i>Mechanics</i> <i>Statistics</i>	Integration Functions Iteration Vectors Variable acceleration Newton-Raphson Large Data set
		Term 3 <i>26</i>	<i>Content review and application to pre-release data, practice papers and exam technique/ preparation</i>	Content review and application to pre-release data, practice papers and exam technique/ preparation