

 CONSETT ACADEMY	Autumn Term		Spring Term		Summer Term	
	HT1	HT2	HT3	HT4	HT5	HT6
Year 7	Place Value/Integers and Decimals	Integers and Decimals / Fractions	Expressions / Rounding & Approximation	Rounding & Approximation / Equations	Probability	Formulae
Year 8	2D Shapes	Percentages / Angles	Angles / Statistics	Finance	Ratio & Proportion / Units	Units / Graphs
Year 9	Scale, Constructions & Transformations	Triangles / Sequences	3D Shapes / Properties of Number	Solving Equations / Indices	Indices / Representing Data	Representing Data / Quadratics
Year 10	Fractions / Inequalities	Box Plots & Cumulative Frequency / Area & Perimeter / Formulae / Circles & Sectors / Probability / Proportion	Algebraic Proportion / Percentages / Triple Brackets / Pythagoras' Theorem / Conversions / Iterations / Straight Line Graphs	Straight Line Graphs / Finance / Angle Facts / Compound Units	Calculating & Estimating / Functions / Trigonometric Ratios / Ratio / Expressions / Proof	Histograms / Surface Area & Volume / Trigonometry /
Year 11	Personalised Curriculum based on QLA	Personalised Curriculum based on QLA	Personalised Curriculum based on QLA	Personalised Curriculum based on QLA	Personalised Curriculum based on QLA	<i>Exam period</i>


Mathematics Curriculum 2022-23

 CONSETT ACADEMY	Autumn Term		Spring Term		Summer Term	
	HT1	HT2	HT3	HT4	HT5	HT6
Year 12 (Maths A Level)	<u>PURE</u> Unit 1 – Algebra Unit 2 – Functions & Graphs Unit 3 – Proof <u>MECHANICS</u> Unit 1 – Constant acceleration <u>STATISTICS</u> Unit 1 – Measures of location & spread Unit 2 – Representations of data	<u>PURE</u> Unit 4 – Trigonometric functions Unit 5 – Exponentials & logarithms Unit 6 - Vectors <u>MECHANICS</u> Unit 2 – Modelling <u>STATISTICS</u> Unit 3 – Correlation & regression Unit 4 – Statistical sampling (inc. large data set)	<u>PURE</u> Unit 7 – Coordinate geometry Unit 8 – Differentiation <u>MECHANICS</u> Unit 3 – Forces <u>STATISTICS</u> Unit 5 - Probability	<u>PURE</u> Unit 9 – Trigonometric identities & equations Unit 10 – Integration Unit 11 – Sequences & series <u>STATISTICS</u> Unit 6 – Statistical distributions	<u>PURE</u> Unit 12 – Numerical methods <u>MECHANICS</u> Unit 4 – Variable acceleration <u>STATISTICS</u> Unit 7 – Hypothesis testing	Personalised curriculum based on QLA
Year 13 (Maths A Level)	<u>PURE</u> Unit 1 – Algebra Unit 2 – Functions & Graphs Unit 3 – Proof Unit 4 – Trigonometric functions <u>MECHANICS</u> Unit 1 – Constant acceleration <u>STATISTICS</u> Unit 1 – Measures of location & spread Unit 2 – Representations of data	<u>PURE</u> Unit 5 – Exponentials & logarithms Unit 7 – Coordinate geometry Unit 8 - Differentiation <u>MECHANICS</u> Unit 2 – Modelling <u>STATISTICS</u> Unit 3 – Correlation & regression	<u>PURE</u> Unit 9 – Trigonometric identities & equations Unit 10 - Integration <u>MECHANICS</u> Unit 3 – Forces <u>STATISTICS</u> Unit 4 – Statistical sampling Unit 5 – Probability	<u>PURE</u> Unit 6 - Vectors Unit 11 – Sequences & series Unit 12 – Numerical methods <u>MECHANICS</u> Unit 4 – Variable acceleration <u>STATISTICS</u> Unit 6 – Statistical distributions Unit 7 – Hypothesis testing	Personalised curriculum based on QLA	Exam period

Maths Curriculum 2022-23

 CONSETT ACADEMY	Autumn Term		Spring Term		Summer Term	
	HT1	HT2	HT3	HT4	HT5	HT6
Year 12 (Further Maths)	<u>CORE PURE</u> Unit 1 – Vectors Unit 2 – Matrices & linear transformations Unit 3 – Complex numbers & the Argand diagram <u>FURTHER MECHANICS</u> Unit 1 – Momentum & impulse	<u>CORE PURE</u> Unit 4 – Roots of polynomials Unit 5 – Series <u>FURTHER MECHANICS</u> Unit 2 – Work, energy & power Unit 4 – Elastic collisions	<u>CORE PURE</u> Unit 6 – Proof by induction Unit 1 – Vectors Review Units 1 – 6 <u>FURTHER STATISTICS</u> Unit 1 – Discrete random variables Unit 2 – Poisson distributions Unit 4 – Hypothesis testing	<u>CORE PURE</u> Review Units 1 – 6 Unit 7 – Volumes of revolution (once integration has been covered in maths) <u>FURTHER STATISTICS</u> Unit 6 – Chi-squared tests	<u>MECHANICS/STATISTICS</u> Personalised curriculum based on QLA <u>PURE (maths)</u> Unit 7 – Differentiation (Year 2 skills needed for Year 2 FM) Unit 8 – Trigonometric identities & equations (Year 2 maths skills needed for Year 2 Core Pure FM)	<u>MECHANICS/STATISTICS</u> Personalised curriculum based on QLA <u>PURE (maths)</u> Unit 9 – Integration (Year 2 skills needed for Year 2 FM)
Year 13 (Further Maths)	<u>CORE PURE</u> Unit 11 – Differential equations <u>FURTHER MECHANICS</u> Unit 1 – Momentum & impulse Unit 3 – Elastic strings & springs	<u>CORE PURE</u> Unit 7 – Volumes of revolution Unit 8 – Methods in Calculus Unit 10 – Hyperbolic functions <u>FURTHER MECHANICS</u> Unit 4 – Elastic collisions	<u>CORE PURE</u> Unit 5 – Series Unit 9 – Polar coordinates Unit 3 – Complex numbers & Argand diagrams <u>FURTHER STATISTICS</u> Unit 3 – Geometric & negative binomial distributions Unit 4 – Hypothesis testing Unit 5 – Central limit theorem Unit 6 – Chi-squared tests	<u>CORE PURE</u> Unit 1 – Vectors Unit 2 – Matrices & linear transformations Unit 4 – Roots of polynomials Unit 6 – Proof by Induction <u>FURTHER STATISTICS</u> Unit 7 – Probability generating functions Unit 8 – Quality of tests	Personalised curriculum based on QLA	Exam period

Mathematics Curriculum 2022-23

 CONSETT ACADEMY	Autumn Term		Spring Term		Summer Term	
	HT1	HT2	HT3	HT4	HT5	HT6
Year 12 (Core Maths)	PAPER 1 TOPICS An introduction to core maths Estimation Finance	PAPER 1 TOPICS Finance Analysis of data	PAPER 2 TOPICS Critical analysis Statistical techniques	Personalised curriculum based on assessment data Use of Pre-release material (Available 1 st March)	Personalised curriculum based on QLA – regularly using pre-release material	N/A – Final exams before half term