Mathematics Learning Journey - NPA

Year 7 This builds upon and develops learning from KS2. Previous understanding is checked, and new material taught from the students starting point	*New Mastery Curriculum introduced this year – will move with each year group until entire cohort is Mastery*	Term 1 Properties of Number Place Value One Term 2 Place value 2 Conventions of 2D and 3D shapes Term 3 Addition and Subtraction Multiplication and Division Multiplicative reasoning Term 4 Generalising Number (Introducing Algebra) Term 5 Linear Sequences Solving linear Equations Term 6 Ordering and equivalence
Year 8 This develops material from year 7 and KS2, deepening and increasing students' subject knowledge and their understanding of previous and new content	*This will be a Mastery Curriculum from 2024-2025*	Term 1 Algebra basics Term 2 Angles Area Surface area Term 3 Circles Volume Term 4 Solving Equations Rearranging formulae Term 5 Sequences Probability Term 6 Data
Year 9 Again, we build on and develop content from previous key stages ensuring building blocks for this years GCSE content are in place	*This will be a Mastery Curriculum from 2025-26*	Term 1 Powers and Roots Standard form Factors Multiples and Primes Fractions Term 2 Data Angles Bearings Plans and Elevations Term 3 Loci and Constructions Scatter Graphs Linear Graphs Transformations Term 4 Enlargements Equations and Inequalities Term 5 Ratio and Proportion Rounding and Accuracy Term 6 Compound Measure
Year 10 Again, building on knowledge and	*This will be a Mastery*	Term 1 Percentages Similarity and congruence Straight line graphs

understanding from previous years we continue to develop student understanding and add new learning. We begin to make tiering decisions this year in preparation for exam entry in Year 11	*Curriculum from 2026-27*	Linear inequalities Transformations Term 2 Quadratics Proportion Term 3 Pythagoras and Trigonometry Indices Term 4: Listing Strategies Probability Equations and Identities Term 5 Working with irrational numbers Solving sImultaneous equations Term 6 Further solving simultaneous equations Further data
Year 11 We complete teaching of the GCSE content, recapping and building upon previous knowledge as we go. Final tiering decisions are made this academic year to ensure students are learning the material most appropriate for their ability level.	*This will be a Mastery Curriculum from 2027-28*	Term 1 Percentages and Decimals Sequences Transformations Further Trigonometry Term 2: Further quadratics Further data Graphs of functions Term 3 Surface area and volume Circle theorems (Higher only) Revision and Exam preparation Term 4 Revision and exam preparation Term 5 Revision and exam preparation
Year 12	*Year 12 teaching is split between two mathematics specialists, so the order in which we teach*	Much of the first term is spent checking and deepening the understanding of higher level topics from GCSE: Term 1: Algebra and Functions Parts 1, 2, and 3 Trigonometry Parts 1 and 2 Term 2: Algebra and Functions Co-ordinate geometry Circle geometry

	the units may vary	Differentiation Term 3: Sequences and Series Exponentials and Logarithms Differentiation (cont) Integration Proof Term 4: Exponentials and Logs Data presentation Proof Vectors Kinematics Term 5: Sampling Large Data set Probability Distributions Kinematics Forces and Newtons Laws Term 6: Hypothesis testing Forces Kinematics and Calculus Revision and recap in preparation for Year 13.
Year 13	*Year 13 teaching is split between two mathematics specialists, so the order in which units are taught may vary.*	Term 1: Binomial Sequences and Series Further Differentiation Trigonometry and Circular measure Further Trigonometry Functions and transformations Term 2: Functions and Transformations Parametric Equations Further Integration Differential Equations Numerical Methods Term 3: Differential Equations Numerical Methods Partial fractions

		Partial fractions and Integration Proof Kinematics Further Probability Term 4: Statistical distributions Kinematics in two dimensions Equilibrium and resolving Term 5: Statistical distributions Hypothesis Testing Statics and Dynamics Moments