Quality of Education: *Curriculum is planned and sequenced so that new **knowledge** and **skills** build on what has been taught before and towards its clearly defined end points.*

Ormiston Victory Academy

SUBJECT: Solving Equations **CURRICULUM PROGRESSION PATHWAYS** **CL: Miss Z. Bradshaw**

Year 7	Year 8	Year 9	Year 10	Year 11	KS5 (Level 3) A-level Mathematics/Core Mathematics	Further Education and training	Careers
NP2 Missing numbers, inverse operations, equality NP3 Missing numbers, inverse operations, equality NP4 Missing numbers, inverse operations, equality NP5 Missing numbers, inverse operations, equality NP6 Missing numbers, inverse operations, equality A1 Working with unknowns, inverse operations	A4 Solving linear equations formally GM2 Finding missing angles in triangles and quadrilaterals GM3 Unknowns in the context of area A5 Rearranging formulae NP10 Finding a percentage change NP11 Equivalent ratios as equivalent fractions	A7 Using the nth term A8 Solving inequalities A9 Speed, distance and time SP3 Finding unknown probabilities using 'sum to 1' A10 Solving linear simultaneous equations GM4 Unknowns in the context of similarity GM5 Pythagoras' Theorem, right-angled trigonometry NP13 Reverse percentages, direct and inverse proportion, compound measures GM6 Working with circle formulae GM7 Finding unknown angles in polygons	NP14 Recurring decimals as fractions A11 Rearranging complex formulae A12 Solving quadratics through factorising, formula and simple completing the square GM8 Unknowns in the context of surface area and volume A13 Unknowns in the context of sequences, recurrence relations GM9 Non-right-angled trigonometry and 3D trigonometry SP6 Solving problems with unknowns and averages NP15 Equations involving indices and surds	A14 Solving quadratic equations and inequalities NP16 Exponentials, problems with ratio, proportion and unknowns GM10 Unknowns in the context of vectors SP7 Unknowns in the context of probability A15 Solving equations involving function notation, estimating solutions with graphs and iteration A17 Equations with algebraic fractions GM11 Unknowns in various geometric contexts	AS PURE Unit 2 Solve Quadratic Equations AS PURE Unit 3 Solve Linear and Quadratic Simultaneous Equations and Inequalities AS Pure Unit 10 + A2 Pure Unit 6 + 7 Solve Trigonometric Equations AS Pure Unit 14 Solving equations with Exponentials and Logarithms. A2 Pure Solve differential Equations A2 STATS Unit 3 Solve Simultaneous Equations in the Context of Mean and Standard Deviation. A2 MECH Unit 4 Solve Equations in		Budget analysts Auditors Accountants Insurance Underwriters Loan officers

Core knowledge and skills mapped across the curriculum

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					Context of Equations for Moments and Forces in Equilibrium A2 MECH Unit 7 Solve Simultaneous Equations in the Context of Tension and Acceleration A2 Mech Unit 6 Solve Equations Modelling Projectile Motion (Quadratics)		

Core knowledge and skills mapped across the curriculum