MATHEMATICS - FOUNDATION Prospect



easures

Trust Knowledge **Skills** Direct and Inverse proportion Mastery in Year 11 Congruence Plans **Ratio and Proportion 2** Vectors and similarity • Interpret a range of algebraic Represent Add vectors Ratio of lengths, area graphs. 3D in 2D Converting units and volume Limits of accuracy Analyse and make statistical Simultaneous equations predictions. Transforming Further Inequalities Quadratics **Construction loci** statistics shapes Line bisectors V • Practice skills listed. Transform Factorising and Solve equations and Averages of frequency Angle bisectors Reflect put on a number line tables solving x^2+bx+c Rotate Scatter graphs Enlarge Y11 **Solving Equations Statistics** Mastery in Year 10 Sampling With brackets Plotting linear graphs With unknowns on both sides Finding x,y from To develop fluency and skills in: intersection • Solving equations. AoF 2 AoF 3 AoF 4 AoF 5 Bearings Area and perimeter Linear graphs Standard form • Calculating perimeter, volume Pythagoras Circles Solve quadratics Ratio and proportion and surface area. Trigonometry Angles in polygons Quadratic graphs Probability Sequences Volume and surface area • Applying logical thinking in probability and shape. 10 AoF 1 Geometry Structure and calculation Angles, Pythagoras Mastery in Year 9 Fractions/decimals/percentage and trigonometry Properties Algebra - manipulation • Build on key skills and deepen Powers Solve equations understanding in preparation Standard form Indicies for GCSE. • Algebra: investigate **Ratio and proportion** Geometry applications, quadratic Algebra expressions and equations, Volume and surface area Linear graphs linear graphs. • Problem-solving with numbers. Investigate different geometrical topics. **Algebra** Geometry Quadratic expressions and Perimeter and area Mastery in Year 8 equations • Develop fundamental skills. • Percentages. Number Geometry Algebra • Shapes and angles. Equations Percentages Shapes and angles Changing the subject Inequalities Algebra equations and



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Understand probability.

Mastery in Year 7

- Build confidence and depth of understanding on core maths skills required for future problem-solving.
- Number skills.
- Algebraic manipulation.

Analyse statistics.

