

MATHEMATICS

Key Stage 3		
Year 7 Co-ordinates Programming (flow charts) Algebra Rounding & Decimals Angles & Circles Polygons Probability Fractions Negative numbers Transformations Area Percentage Statistics Circles – labelling Scale drawing	Year 8 Extend Year 7 topics plus: Simultaneous Equations Constructions Pythagoras Theorem Area & Circumference Circles Vectors Percentages Conversion graphs Transformations Standard form	Year 9 Extend Year 8 topics plus: Loci Trigonometry Data project & statistics Interpreting graphs
Support for Pupils: 6 th Form peer mentors. Out of lesson support. Weekly Maths puzzle and activity club.		
Useful Websites: www.mymaths.co.uk www.bbc.co.uk/schools/ks3bitesize www.emaths.co.uk		

Key Stage 4	
Year 10 Formulae Right angles triangles Measures of central tending and dispersion Vectors Scatter diagrams and correlation Percentages Indices Normal distribution Statistics coursework planning Algebraic fractions Time series and quality assurance Probability Probability distributions Area and volume Locus and constructions	Year 11 Proportion Probability Surds and recurring decimals Quadratic equations Bounds in calculations Graphs Trigonometric ratios for any angle Using and interpreting graphs Sine and cosine rules and area of triangle formula Difficult algebra Proof in geometry Transformation of functions Proof in algebra

Graphs and solving equations using graphs Simultaneous equations and regions Circle Theorems Ratio and similar shapes Solving quadratic equations	
Support for Pupils: At various intervals, mock, practice and past exam papers and mark schemes are made available on the school network and MyClasses. Revision CD. Sixth form Mentors. Drop in Maths Workshops during lunchtime run by staff.	
Useful Websites: www.mymaths.co.uk www.bbc.co.uk/schools/ks4bitesize	

Key Stage 5	
Year 12 Algebra and functions Coordinate geometry Sequences and series Differentiation Integration Circles Trigonometry Logarithms Representing and summarising data Probability Correlation and regression Discrete random variables Normal distribution	Year 13 Further algebra and functions Further trigonometry Exponential functions and logarithms Further differentiation and integration Numerical methods Partial fractions Parametric equations Binomial series Vectors Kinematics Particle statics and dynamics Moments Poisson and binomial distributions Continuous random variables Hypothesis testing
Support for Pupils: The department subscribe all students to the MEI Distance Learning Website, a huge bank of resources aimed at helping students with all units at both Maths and Further Maths. Drop in Maths Workshops during lunchtime run by staff. Out of lesson help and support.	
Useful Websites: www.resources.mei.org.uk	