

Key Stage Five Curriculum – Carre’s Grammar School

| Mathematics | | | | | | |
|--------------------|---|---|--|---|---|---|
| | Autumn 1 | Autumn 2 | Spring 3 | Spring 4 | Summer 5 | Summer 6 |
| Year 12 | Quadratics Graphs and Transformations Equations and Inequalities Algebraic Expressions Straight Line Graphs Circles | Binomial Expansion Algebraic Methods Trigonometric Ratios Trigonometric identities and equations | Exponentials and Logarithms Integration Differentiation Vectors | Statistics - Sampling Statistics - Data presentation and interpretation Statistics – Probability Mechanics - Constant acceleration Mechanics - Forces and Newton’s laws | Statistics - Statistical Distributions Statistics - Hypothesis testing Mechanics - Variable acceleration | Algebraic and Partial fractions Functions and Modelling Proof Series and Sequences |
| | Assessment September – Suitability test November – Autumn term assessments covering units taught End of unit assessments | | Assessment End of unit assessments March – Spring assessment covering all units taught | | Assessment April – Summer assessment covering all units taught End of unit assessments On-going practice papers | |
| Year 13 | Trigonometry- Radians Trigonometric functions Trigonometry/ modelling Vectors Differentiation | Binomial theorem Numerical methods Integration | Statistics - Regression and Correlation Statistics - Probability Statistics - Normal distribution Mechanics - Moments Mechanics - Forces at an angle Mechanics - Applications of kinematics | Statistics - Normal Distribution Mechanics - Applications of forces Mechanics - Further Kinematics | Revision | |
| | Assessment September – Mock Examination – 2 papers (1 Pure mathematics, 1 Applied mathematics) End of unit assessments On-going practice papers | | Assessment March – Mock Examination – 2 papers (1 Pure mathematics, 1 Applied mathematics) End of unit assessments On-going practice papers | | Assessment May/June – A-Level Examination – 2 papers (1 Pure mathematics, 1 Applied mathematics) | |