**The Latimer Arts College Curriculum Year Overview**

**Subject: Mathematics**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Year 7** | **Year 8** | **Year 9** | **Year 10** | **Year 11** | **Year 12** | **Year 13** |
| **Term 1** | Algebraic Thinking | Proportional Representation | Calculations 1  Expressions | Similarity and Congruence  Trigonometry | Gradients and lines  Non-linear graphs  Kinematic graphs | Algebra  Coordinate geometry  Surds and indices  Graphs | Radian measure  Trigonometry 2  Functions  Partial fractions |
| **Term 2** | Place Value and Proportion | Representation | Angles and polygons  Handling data 1 | Developing Algebra  Equations and inequalities | Expanding and factorising  Changing the subject  Functions | |  | | --- | | Differentiation 1  Integration 1 | | Binomial expansions  Vectors | | Differentiation 2  Sequences and series |
| **Term 3** | Number Operations | Algebraic Techniques | Fractions, decimals and percentages | Circles and constructions  Vectors | Direct and inverse proportion  Algebraic and geometric reasoning | Trigonometry 1  Logarithms and exponential functions | Mechanics 2 |
| **Term 4** | Directed Number / Fractional Thinking | Developing Number | Formulae and functions | Proportional Change  Probability | Revision | Mechanics 1 | Integration 2 |
| **Term 5** | Lines and Angles | Developing Geometry | Working in 2D | Delving into Data  Collecting, interpreting and representing data | Revision | Statistics 1 | Revision |
| **Term 6** | Reasoning with Number | Reasoning with Data | Probability | Non-Calculator methods  Indices and Roots |  | Numerical Methods  Statistics 2 |  |