**The Latimer Arts College Curriculum Year Overview**

**Subject: Mathematics**

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|  | **Year 7** | **Year 8** | **Year 9** | **Year 10** | **Year 11** | **Year 12** | **Year 13** |
| **Term 1** | Algebraic Thinking | Proportional Representation | Calculations 1Expressions | Similarity and CongruenceTrigonometry | Gradients and linesNon-linear graphsKinematic graphs | AlgebraCoordinate geometrySurds and indicesGraphs | Radian measureTrigonometry 2FunctionsPartial fractions |
| **Term 2** | Place Value and Proportion | Representation | Angles and polygonsHandling data 1 | Developing AlgebraEquations and inequalities | Expanding and factorisingChanging the subjectFunctions |

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| Differentiation 1Integration 1 |
| Binomial expansionsVectors |

 | Differentiation 2Sequences and series |
| **Term 3** | Number Operations | Algebraic Techniques | Fractions, decimals and percentages | Circles and constructionsVectors | Direct and inverse proportionAlgebraic and geometric reasoning | Trigonometry 1Logarithms and exponential functions | Mechanics 2 |
| **Term 4** | Directed Number / Fractional Thinking | Developing Number | Formulae and functions | Proportional ChangeProbability | Revision | Mechanics 1 | Integration 2 |
| **Term 5** | Lines and Angles | Developing Geometry | Working in 2D | Delving into DataCollecting, interpreting and representing data | Revision | Statistics 1 | Revision |
| **Term 6** | Reasoning with Number | Reasoning with Data | Probability | Non-Calculator methodsIndices and Roots |  | Numerical MethodsStatistics 2 |  |