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| GCSE Maths Long Term Plan |

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| ‘Rolling’ over 2 yrs | AUTUMN 1 | AUTUMN 2 | | Assessment | SPRING 3 | SPRING 4 | Assessment | SUMMER 5 | SUMMER 6 | Assessment |
| YEAR 1 | Number Theory  Place value  Basic operations  With number +/-/x/÷  Multiples, factors, primes, LCM, HCF, prime factors  FDP with basic operators | | Number theory Extended to probability, ratio, and proportion.  Shape, Space, Measure  2D shape and angle geometry. Pythagoras’ Theorem. | EL1,2,3 paper/GCSE paper. | Shape, Space, Measure  Circle terminology and formulae.  Metric units  3D shape, nets, plans, elevations and surface area, volume.  2D Coordinate geometry. | Algebra  Like terms, rule of signs,  Substitution and formulae.  Variables, terms, expressions, formulae and solving equations with inverse operations.  Algebra and the laws of indices. | EL1,2,3 paper/GCSE paper. | Shape, Space, and Measure  Regular, irregular polygons, angle theory.  The 4 transformations.  Straight line graphs – y=mx+c.  Compound measures. | Data Handling  Types of data. Populations and random sampling.  Collecting/representing data. 2-way tables.  Analysing data through, mode, median, mean and range. | EL1,2,3 paper/GCSE paper. |
| Revisit | Autumn 1&2 (Yr. 2) | | |  | Spring 3&4 (Yr. 2) | |  | Spring 3 (Yr. 2) | Spring 4 (Yr. 2) |  |
| YEAR 2 | Number Theory  Place value with indices.  Further Laws of Indices.  Products of primes and LCM HCF.  Fractions (F), Decimals (D)  Percentages  FDP, w  Estimation | | Number theory  Extended to probability, ratio, and proportion.  Shape, Space, Measure  Pythagoras’ Theorem & Trigonometry  3 D volume and surface area. | EL1,2,3 paper/GCSE paper. | Shape, Space, Measure  Rules of circle geometry  Metric units, time-distance graphs, and rate of change.  Standard form.  Expanding & Factorising  More complex linear equations.  Solving quadratics graphically. | Algebra  Variables, terms, expressions, formulae and solving equations with inverse operations, general method.  Re-arranging formulae,  Substitution and solving,  Solving in x2 quadratics,  Plotting/interpreting quadratics. | EL1,2,3 paper/GCSE paper. | Exam Revision  Revision and past papers practise, individualised examination revision.  Edexcel  Non calculator maths paper 1 | Exam Revision and Practise  Revision and past papers practise, individualised examination revision.  Edexcel  Calculator maths papers, 1 and 2 | GCSE Exams |
| Revisit | Summer 5 | | |  | Summer 5 | |  |  |  |  |