



Gosford Hill School

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Dear Parents and Carers,

Re: Year 11 Mathematics – Programme of Study

Please find attached the programme of study for your child in Year 11 Maths. This is so you are aware of what is being taught each term.

I would also encourage you to check that your child is completing their Sparx homework each week, as this is also linked to their scheme of learning.

If you have any questions please let me know.

Kind regards,

Mrs A Carney
Subject Leader of Mathematics



Year 11 Mathematics

Programme of Study

Term 1	Term 2	Term 3
• Factors and multiples, powers and roots, surds. • Equation of a line. Linear and quadratic functions, properties • of quadratic graphs, kinematic graphs • 3D shapes, volumes of prisms, volume and surface area • Frequency diagrams, averages and spread 2, box plots, cumulative • frequency graphs, scatter graphs and correlation, time series.	• Roots and indices, exact calculations, standard form and review exercise • Pythagoras' theorem. • Trigonometry and 3D trigonometric problems and vectors. • Cubic and reciprocal functions, exponential and trig functions, real life graph, • Gradients and areas under graphs, equation of a circle and review exercise.	• Sets, possibility spaces, tree diagrams and conditional probability and • review exercise. • Linear sequences, quadratic sequences and special sequences and • review exercise. • Compound units, converting between units, direct and inverse proportion, • rates of change, growth and decay and review exercise. • Course finished. Revision and practice exam papers to begin.

Term 4	Term 5	Term 6
• Exam paper practice • Revision of key topics	• GCSE Exams • Revision of key topics	• GCSE Exams • Revision of key topics