



Gosford Hill School

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Dear Parents and Carers,

Re: Year 10 Mathematics – Programme of Study

Please find attached the programme of study for your child in Year 10 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 10 Mathematics

Programme of Study

Term 1	Term 2	Term 3
- Place value and rounding - Adding and subtracting - Multiplying and dividing - Simplifying expressions - Indices - Expanding and factorising - Algebraic fractions - Angles and lines - Triangles and quadrilaterals - Congruence and similarity - Angles in polygons - Sampling, organising data, representing data, averages and spread	- Fractions and percentages, calculations with fractions, FDP conversions - Formulae, functions, equivalences in algebra, expanding and factorising - Solving linear and quadratic equations - Measuring lengths and angles, area of a 2D shape, transformations - Probability experiments, theoretical probability, mutually exclusive events - Estimation and approximation, calculator methods, measures and accuracy	- Simultaneous equations, approximate solutions, inequalities - Circles 1 and 2 8 circle theorems - Constructions and loci

Term 4	Term 5	Term 6
- Factors and multiples, powers and roots, surds - Equation of a line. Linear and quadratic functions	- Kinematic graphs. 3D shapes, volumes of prisms, volume and surface area - Pythagoras' theorem, SOHCAHTOA, sine rule, cosine rule, area of a triangle	- Revise for end of year exam - Review exam in class - Finish trig and vectors - Frequency diagrams, averages and spread 2, box plots and cumulative frequency - graphs, scatter graphs and correlation, time series - Maths Challenges