

The Further Mathematics Support Programme

# Yr12/13 Problem Solving Sessions

Durham VI Form Centre, The Sands, Durham. DH1 1SG

09:30 to 1:00: Saturday 14<sup>th</sup> Oct, 25<sup>th</sup> Nov, 3<sup>rd</sup> Feb 2018, 10<sup>th</sup> March 2018.



Each session will look at different areas of mathematics:

These will include:

Identities, geometry and digits, divisibility, combinatorics, factorisation, irrationals, sequences and series, indices and logarithms, polynomials, trigonometry, coordinates, vectors, curve sketching, binomials, differentiation and integration.

**These sessions provide an introduction to advanced problem solving skills which will be useful preparation for STEP/AEA/MAT/TMUA and for anyone considering a degree in Mathematics or Physics.**

The problems are based solely on Yr12 AS pure mathematics. Participating students are expected to solve problems, individually or as part of a group. Full solutions will be provided at the end of each session. There will also be a prize for the most elegant solution to particular problems.

These sessions are free to students in the first, or second, year of A-level (or AS) Maths at state schools and colleges.

Presenter: Dr Michael Gibson.

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