

# GCSE Mathematics Problem-Solving Programmes

The Problem-Solving menus offer a range of one to three day options designed to address specific elements of the GCSE Mathematics syllabus involving embedded problem solving.

## Guided Problem Solving

Learners are guided through a selective coverage of the syllabus, building up a personalised revision folder focusing on strategies for tackling multi part exam style problems containing embedded maths. Set Menu options are available for all exam boards and cover foundation/higher overlap elements of the syllabus.

### Set Menu A - Embedded Shape and Numeracy

- percentage • applications of money • unit conversion • currency
- area and perimeter • tiling applications • best buys

### Set Menu B - Embedded Algebra Skills

- writing expressions • substitution • using a formula
- forming equations • solving equations • angles in parallel lines
- rearranging formula • area and perimeter

### Set Menu C - Embedded Fraction and Percentage Skills

- simplifying fractions • time • fractions of amounts • fraction arithmetic
- percentage change • one quantity as a % of another
- multipliers • repeated % change

### Set Menu D - Embedded Ratio and Proportion Skills

- shape applications • data applications • fraction and percentage applications • direct and inverse proportion • best deals
- venn diagrams

### Set Menu E - Embedded Mixed Skills

- a selection of content from menus A-D

## Independent Problem Solving

Learners are provided with a selection of complex, multi part problems and are encouraged to build up resilience skills, along with best strategies for tackling such problems in exams.

The course is available as a half or full-day programme, at either Grade 3-5 or 7+ student ability profile.

### Option A (Grade profile 3-5)

- Embedded skills incorporating area, best buys, VAT, percentages, volume, BIDMAS, solving equations, speed/distance/time, profit & loss, interest rates, ratio & proportion.

### Option B (Grade profile 7+)

- Embedded skills incorporating speed/distance/time, bearings, trigonometry, surds, complex 3D shape, simultaneous equations, arcs & sectors, graphs.

### GCSE Maths Blast (Grade profile 1-2.5)

One-day Maths programme incorporating topic focus, kinaesthetic activities, problem solving and teamwork, with the aim of improving confidence in GCSE Maths for students currently working at Grade 2.5 and below.

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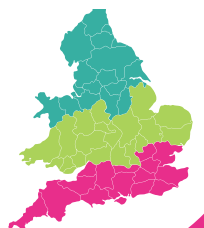
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Contact your regional Business Development Manager for more information or to book an appointment