Advanced Mathematics
Support Programme

Self-audit: Strategies for increasing girls' participation in level 3 mathematics

| Strategy | Already do this | Could try this | Not right for us right now |
| :---: | :---: | :---: | :---: |
| Arrange for girls to take part in enrichment events aimed at promoting the opportunities provided by level 3 maths. |  |  |  |
| Create displays that promote maths as being a subject for all students. Ensure equal gender representation in displays/resources that provide information about success stories in STEM industries. Try to ensure that a wide range of abilities are represented, so that maths is not perceived as an 'elite’ subject. |  |  |  |
| Ensure that promotional information about level 3 maths courses makes explicit links to the utility of the subjects for a wide range of future study and career options, including degrees in subjects such as biology, geography and social sciences. Share with parents too. |  |  |  |
| Proactively make contact with parents/carers of girls with the potential to take level 3 maths. Research suggests that girls often lack self-belief and are more likely to respond positively to the encouragement of adults such as teachers and parents. |  |  |  |
| If using competition as a teaching technique, experiment with team based approaches or competitions that can be completed over an extended time period, rather than focusing on rewarding processing speed. For example, a competition to design a poster that promotes/explains an area of maths. |  |  |  |
| Organise lunchtime or afterschool revision/extension groups. Research suggests that girls often prefer the chance to discuss their ideas away from the pressure of a classroom situation in which confident boys may dominate. |  |  |  |
| Set up a peer mentoring/tutoring scheme, where students currently taking mathematical level 3 courses can act as role models to students in younger year groups; approach girls to encourage them to participate. |  |  |  |


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| :--- | :--- | :--- | :--- |
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| Introduce extension material (or even an additional <br> qualification such as the AQA Level 2 Certificate in Further <br> Mathematics) alongside GCSE courses, to enable GCSE <br> students to experience A level style work. Research suggests <br> that all students, but girls in particular, value the opportunity <br> to evaluate their interest and find out how they might cope <br> with a new course before making a commitment. |  |  |  |
| Persuade colleagues in quantitative subjects to be explicit <br> with students about the benefits of taking a <br> level 3 maths qualification alongside their subject at A level. <br> Complement this by putting up displays in <br> the Maths Department about the maths used in, for example, |  |  |  |
| A level Psychology. |  |  |  |

Resources to support you with these strategies can be found at:
https://amsp.org.uk/teachers/11-16-maths/girls-participation

