



Advanced Mathematics  
Support Programme®

## AMSP and the Gatsby Benchmarks

The AMSP is a government-funded national programme that provides a variety of support to help young people, aged 11-18, choose and study the mathematical qualifications needed for future (STEM) careers. One aspect of our work is directly with young people through enrichment events which offer students inspiration and guidance around further and higher education, careers and mathematics. Additional support is given to those in *priority areas* to boost social mobility with the aim that, **whatever their background, gender or location**, students will choose to study level 3 maths post-16 and will develop the mathematical knowledge and skills needed to become effective, productive citizens in a competitive modern economy.

The aims of the AMSP are:

- Increase participation in AS/A level Mathematics and Further Mathematics
- Increase participation in Core Maths
- Improve the quality of mathematics teaching
- Increase the number of students studying STEM degrees and apprenticeships

We see effective liaison with employers as fundamental to this, as students need to be aware of the importance and relevance of maths to their future options.

We are pleased that the Gatsby Benchmarks and the government's Careers Strategy highlight the importance of students having contact with both employers and higher education.

The table included outlines how the AMSP can help schools to achieve those Gatsby benchmarks through engaging with the activities and support that we offer.

Almost all of what we offer is **free to schools in England** as we are Government funded.

Gatsby Benchmark	How the AMSP can support schools
1. A stable careers programme	<ul style="list-style-type: none"> <li>• Details of resources, activities and courses are freely available on our <a href="#">website</a> and can be used to feed into your careers programme.</li> <li>• Advice can also be accessed directly by schools through our <a href="#">Area Coordinators</a>.</li> </ul>
2. Learning from career and labour market information	<ul style="list-style-type: none"> <li>• Our Website contains up to date information on <a href="#">post-16 maths options for students</a>, what those qualifications entail and how they are valued for various <a href="#">careers</a> and <a href="#">further and higher education courses</a>.</li> <li>• We have a network of over 40 <a href="#">Area Coordinators</a> that regularly work with schools across England.</li> <li>• Established links with other STEM organisations and employers that we use in our work.</li> </ul>

Gatsby Benchmark	How the AMSP can support schools
<b>3. Addressing the needs of each student</b>	<ul style="list-style-type: none"> <li>We offer sustained intervention and support for schools in <i>priority areas</i>.</li> <li>Our <i>enrichment events</i> are tailored to the audience – for example by age or <i>gender</i> – in order to address their different needs.</li> <li>Providing <i>strategies and resources</i> to promote gender balance</li> <li>We cater for all students that will achieve at least a standard pass at GCSE and give <i>guidance on choosing the most suitable post-16 maths pathway</i>.</li> </ul>
<b>4. Linking curriculum learning to careers</b>	<ul style="list-style-type: none"> <li>Through our <i>Why Study Maths resources</i>, and scheduled and bespoke enrichment events, we make students aware of the various maths pathways there are in post-16 education and training; where that might lead and how it is useful for different careers and courses.</li> <li>Our <i>'Where maths meets the world of work'</i> resources directly link the maths curriculum to careers.</li> <li>Our <i>courses for teachers</i> include links between the mathematics curriculum and the wider world and employment.</li> <li>The more recently introduced <i>Core Maths</i> is specifically designed to develop the quantitative <i>skills needed for the workplace</i>.</li> </ul>
<b>5. Encounters with employers and employees</b>	<ul style="list-style-type: none"> <li>We have strong links with STEM employers who regularly support our <i>11-16 enrichment events</i> with ambassadors.</li> <li>Most events feature a specific careers focus, enabling both students and teachers to explore links between their curriculum and different professions.</li> </ul>
<b>6. Experiences of workplaces</b>	<ul style="list-style-type: none"> <li>We hold enrichment events for students at employer venues.</li> </ul>
<b>7. Encounters with further and higher education</b>	<ul style="list-style-type: none"> <li>Many of our enrichment events are hosted at universities and use speakers from higher education and research.</li> <li>We work closely with schools and universities in order to support applications to competitive HE programmes.</li> </ul>
<b>8. Personal guidance</b>	<ul style="list-style-type: none"> <li>We can provide expert up to date knowledge and support around all aspects of Level 3 mathematics beyond. E.g. <i>SUMS</i> – Steps to University for Mathematical Students.</li> <li>We can offer <i>advice</i> regarding applications to universities and <i>preparation for admissions test</i> to universities such as Oxford and Cambridge University.</li> </ul>

**To be kept informed of Advanced Mathematics Support Programme (AMSP) activities -**

Request to be kept informed at: [amsp.org.uk/subscribe](https://amsp.org.uk/subscribe)

**To ensure a school/college is signed-up for free online resources with the AMSP -**

Register at: [amsp.org.uk/register](https://amsp.org.uk/register)

**If you would like to discuss anything you have read on this document further –**

Please contact us at: [careers@amsp.org.uk](mailto:careers@amsp.org.uk).