

<p><b>Broad Intent:</b> The aim of Mathematics education at JOG is to provide our students with a foundation for understanding the world, the ability to reason mathematically, an appreciation of the power of mathematics, and a sense of enjoyment and curiosity about the subject.</p> <p>Maths at JOG aims to give our learners a rounded balanced diet from the key areas within mathematics: number, algebra, data and geometry. We expect all learners to have the key skills needed to guide them through to their GCSEs, but also want learners to have the mathematical reasoning to apply knowledge to solving problems</p>	<p><b>KS3 Intent:</b></p> <ul style="list-style-type: none"> <li>• To enable our students to become resilient and willing to have a go</li> <li>• To develop students who are fluent with procedures and fact recall</li> <li>• To develop students who are confident in explaining by using a range of sentence stems</li> <li>• To encourage our students to solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication.</li> <li>• To enable students to become inquisitive and follow their own lines of enquiry</li> <li>• To develop students who are reflective and can evaluate their answers and the answers of their peers</li> <li>• To enable students to become creative with an ability find their own solutions;</li> <li>• To develop students who can visualise their maths</li> <li>• To ensure students enjoy maths whilst always being challenged.</li> <li>• To foster a growth 'mind-set' in children, where our students will not be afraid to make mistakes and rather see making mistakes or getting an answer wrong as part of their learning journey</li> <li>• To encourage the use of Mathematical language inc tier3 &amp; 4 broadening students' literacy and numeracy knowledge.</li> </ul>
<p>Our Maths curriculum at JOG goes far beyond what is taught in lessons, for whilst we want students to achieve the very best examination results possible, we believe our curriculum goes beyond what is examinable. As a department we offer opportunities for individual and team competition through the UKMT in KS3.</p>	<p><b>KS4 Intent:</b></p> <ul style="list-style-type: none"> <li>• To ensure every student leaves JOG confident and competent to deal with any mathematical problem they may face in their lives and future careers.</li> <li>• To push students to be the best mathematicians by building up their skills base and maximising their GCSE grade in mathematics, whichever grade that may be.</li> <li>• To give them a strong foundation in maths that will enable them do A levels in Maths if they desire to</li> <li>• To provide real stretch and challenge and opportunities for collaborative thinking, as well as space for independent thought and creative solutions.</li> <li>• To develop students who can solve problems and able to express themselves in Mathematical language.</li> </ul>