

Subject Description	<p>Mathematics is important in everyday life. It allows us to make sense of the world around us and to manage our lives. Using mathematics allows us to model real-life situations and equips us with the skills we need to interpret and analyse information, simplify and solve problems and make informed decisions. The learning of mathematics also develops logical reasoning, analysis and the ability to think in abstract ways.</p>
Course Content	<p>Throughout S3, pupils will continue to progress through the experiences and outcomes of CfE Mathematics at Third and Fourth levels, ensuring breadth, challenge and application of learning.</p> <p>The Mathematics courses will cover the operational skills involved in algebra, geometry, trigonometry and statistics, as well as the operational skills involved in finance, measurement, statistics and patterns and formulae.</p> <p>The courses will also aid the development of reasoning skills (investigation, problem-solving, analysis and modelling) and numeracy skills (number process and information handling).</p> <p>The Applications of Mathematics courses bring mathematics into the real world with personal finances, statistics and measurement. Learners will develop knowledge, understanding and skills that will enable them to apply mathematical ideas and strategies in real-life situations. These include managing finances, statistics, data and probability, geometry and measurement.</p> <p>The development of mathematical skills and application of mathematical techniques in context will be furthered by exploiting the power of calculators and computer software where appropriate. Pupils will be required to purchase a scientific calculator for their own use (we recommend the Casio FX83GT).</p>
Progression & Pathways	<p>During S3 (around late February/early March), pupils may progress to</p> <ul style="list-style-type: none"> <li>• National 3/4/5 Applications of Mathematics; or</li> <li>• National 5 Mathematics.</li> </ul> <p>Pupils will be advised on the most appropriate level of course based on their attainment during S3.</p> <p>Mathematics has applications in many subject areas, and the skills developed from all the courses support progression in other curriculum areas, as well as into Skills for Work Courses, National Progression Awards, National Certificate Group Awards, further education and employment.</p> <p><b>Further information can be found on SQA's website (<a href="http://www.sqa.org.uk">www.sqa.org.uk</a>)</b></p>