Mathematics

## Class of 2018

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| Exam board information: Edexcel International GCSE Mathematics A (4MAO) |

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| Course content: Focusing on mathematical skills, techniques and concepts and how to use them to solve problems, it’s designed as a two-year course.  Overview of content: Number, Algebra, Geometry, Statistics. |

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| Skills that will be developed: The Edexcel International GCSE in Mathematics (Specification A) qualification enables students to:   * develop their knowledge and understanding of mathematical concepts and techniques * acquire a foundation of mathematical skills for further study in the subject or related areas * enjoy using and applying mathematical techniques and concepts, and become confident to use mathematics to solve problems * appreciate the importance of mathematics in society, employment and study. |

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| How the course will be assessed: The Edexcel International GCSE in Mathematics qualification is comprised of two externally assessed papers, with two tiers of entry to allow students to be entered for the appropriate level.  Questions in the Foundation Tier paper are targeted at grades in the range C – G.  The highest grade which will be awarded at Foundation Tier is grade C.  Questions in the Higher Tier paper are targeted at grades in the range A\*– D.  There is a ‘safety net’ grade E for students who narrowly fail to achieve grade D.  Students who fail to achieve grade G on Foundation or grade E on Higher will be awarded Ungraded.  In all examination papers:   * calculators may be used * formulae sheets will be provided. |

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| To be successful: Students will be required to demonstrate their ability to do the following:   * Use numerical skills in a purely mathematical way and in real-life situations. * Use letters as equivalent to numbers and as variables. * Understand the distinction between expressions, equations and formulae. * Use algebra to set up and solve problems. * Demonstrate manipulative skills. * Construct and use graphs. * Use properties of angles. * Understand a range of transformations. * Work within the metric system. * Understand ideas of space and shape. * Use ruler, compasses and protractor appropriately. * Understand basic ideas of statistical averages. * Use a range of statistical techniques. * Use basic ideas of probability. |

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| Onward pathways: This qualification supports progression to:   * GCE AS and Advanced Level in Mathematics * GCE AS and Advanced Level in Further Mathematics * GCE AS and Advanced Level in Pure Mathematics * GCE and other further qualifications in numerate disciplines, such as the sciences, economics or business further education or employment where mathematics skills are required. |

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| Further information: Ms Alison Lewis, Subject Leader for Mathematics at SNHS  <http://qualifications.pearson.com/en/qualifications/edexcel-international-gcses-and-edexcel-certificates/international-gcse-mathematics-a-2009.html> |