Mathematics

Students will sit one calculator and one non-calculator exam. The non-calculator paper is 45 minutes long and the calculator paper is 1 hour long. Both exams will assess the knowledge students have obtained from the first term of study, as well as their general mathematical skills.

Students are advised to revise the following topics using the independent learning page on Sparx Maths. They will also find it useful to revise the content in their knowledge organiser.

Unit	Topic	Content	Sparx Codes for Independent Learning
8.01	Powers and Roots	Use integer powers and associated real roots (square, cube and higher), recognise powers of 2, 3, 4, 5, 10 and distinguish between exact representations of roots and their decimal approximations.	M135, M608
8.02	Prime Factorisation	Use the concepts and vocabulary of prime numbers, factors (or divisors), common factors, prime factorisation, including using product notation and the unique factorisation property.	M322, M823, M108, M365, M227, M698
8.03	Rounding	Round numbers and measures to an appropriate degree of accuracy (for example, to a number of decimal places or significant figures).	M111, M431, M994, M131, M878
8.04	Fractions	Multiply and divide fractions with mixed numbers and proper fractions.	M939, M410, M671, M601, M835, M931, M157, M197, M110, M265
8.05	Solving equations 1	Use algebraic methods to solve linear equations in one variable (including all forms that require rearrangement). Model situations or procedures by translating them into algebraic expressions or formulae and by using graphs	M707, M509, M387, M554, M813, M795, M531, M957
8.06	Angles in parallel lines	Understand and use the relationship between parallel lines and alternate and corresponding angles	M818, M163, M606, M351, M679, M393