



GHS Mathematics Department

Form 4 & Accelerated Form 3

Term 3, 2026

Teachers: A. Jack, A. Murray, K. Cato, J. Lewis-McLean

Week	Topic	Learning Objectives
1 - 3	Matrices	<ol style="list-style-type: none"> 1. Define a matrix 2. Give the order of a matrix 3. Use row and column to identify an entry/element in a given matrix 4. Identify equal, identity, square and zero matrix 5. Add and subtract matrices 6. Multiply a matrix by a scalar number 7. Multiply two matrices 8. Recognize that matrix multiplication is not commutative 9. Use matrices to solve simple problem in geometry 10. Calculate the determinant of a 2×2 matrix 11. Identify 2×2 singular matrix 12. Obtain the inverse of a non-singular 2×2 matrix 13. Use matrices to solve simultaneous equations and simple problems in algebra
3 - 5	Trigonometry II	<ol style="list-style-type: none"> 1. Apply the sine and cosine rules to the solution of non-right-angled triangle 2. Apply the sine and cosine rules to the solution of problems in the physical, biological and social sciences 3. Calculate the area of a triangle given two sides and the included angle using the formula $\frac{1}{2}ab\sin C$ 4. Explain bearings and draw diagrams to represent the bearing of a point from another point 5. Solve problems involving bearings
6	Quadratic Graphs	<ol style="list-style-type: none"> 1. Draw and interpret graphs of a quadratic function to determine: <ol style="list-style-type: none"> a. The roots of a function b. The elements of the domain that have given image c. The image of a given element in the domain d. The maximum or minimum value of the function e. The equation of the axis of symmetry f. An estimate of the value of the gradient at a given point (i.e. the gradient of the tangent at a given point) g. The interval of the domain for which the elements of the range may be greater than or less than a given point h. The solutions of quadratic simultaneous equations
7	Algebra II	<ol style="list-style-type: none"> 1. Express a quadratic equation/function in the form $a(x + h)^2 + k = 0$ 2. Solve quadratic equations by completing the square 3. Using a quadratic function expressed in the form $a(x + h)^2 + k$ determine: <ol style="list-style-type: none"> a. The maximum/minimum value b. The equation of the axis of symmetry, etc.