GHS Mathematics Department
Term 2, 2026
Form 4 & Accelerated Form 3

Week	Topic	Learning Objectives
1 - 2	Changing the subject of the Formula	1. Changing the subject of the formula a. Write a variable in terms of another with symbols connected by a plus sign b. Write a variable in terms of another with symbols connected by a minus sign c. Write a variable in terms of another with symbols connected by a product d. Write a variable in terms of another with symbols connected by a quotient e. Change the subject of the formula requiring the removal of squares, square roots and powers f. Evaluate a formula
3 - 4	Coordinate Geometry	1. Recap: a. Read and plot points on the Cartesian plane b. Write coordinates of points as ordered pairs c. Determine the length, midpoint and gradient of a line segment 2. Recognize a linear equation connecting two variables: y = mx + c where m and c are real numbers 3. Plot a straight-line graph of a given equation 4. Find the gradient and y-intercept of a straight line from its graph 5. Find the equation of a straight line given (i) gradient and y-intercept, (ii) gradient and a point on the line, (iii) two points on the line 6. Identify parallel lines, perpendicular lines and perpendicular bisectors 7. Find the equation of parallel lines, perpendicular lines and perpendicular bisector 8. Analyze $y = mx + c$ by using the values of m and c to sketch the graph
5 - 6	Factorising Expressions	1. Factorize an expression using the HCF 2. Factorize an expression by grouping 3. Factorize a quadratic expression using the distributive Law 4. Factorize a quadratic expression (trinomial) 5. Factorize as the difference of two squares

7 - 8	Solving Quadratic Equations	1. Solve quadratic equations by factorizing. 2. Solve quadratic equations by using the quadratic formula 3. Solve quadratic equations by completing the square. 4. Solve word problems involving quadratic equations. 5. Solve a pair of equations in two variables when one equation is quadratic or non – linear and the other linear
9 - 10	Quadratic Graphs	1. Draw and interpret graphs of a quadratic function to determine: 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 solutions of quadratic simultaneous equations e. The maximum or minimum value of the function f. The equation of the axis of symmetry g. The interval of the domain for which the elements of the range may be greater than or less than a given point h. An estimate of the value of the gradient at a given point i. Intercepts of the function 2. Determine maximum or minimum value of a quadratic function expressed in the form $a(x+h)^2+k$