Mathematics Year 10 Higher

Learning Intentions Spring Half-term 2 2024-2025

	LESSON 1	LESSON 2	LESSON 3	LESSON 4
WEEK 22 wc 24th February	• Find the roots of quadratic functions.	• Rearrange and solve simple quadratic equations.	• PAZ2 Assessment - NC	• PAZ2 Assessment – Calculator allowed
WEEK 23 wc 3rd March	• Solve more complex quadratic equations.	• Use the quadratic formula to solve a quadratic equation.	• Complete the square for a quadratic expression.	• Solve quadratic equations by completing the square.
WEEK 24 wc 10th March	• Solve simple simultaneous equations. • Solve simple simultaneous equations.	• Solve linear simultaneous equations where both equations are multiplied. • Interpret real-life situations involving two unknowns and solve them.	• Solve simultaneous equations with one quadratic equation.	• Use real-life situations to construct quadratic and linear equations and solve them.
WEEK 25 wc 17th March	• Solve inequalities and show the solution on a number line and using set notation.	• Find the perimeter and area of compound shapes. • Recall and use the formula for the area of a trapezium.	• Convert between metric units of area.	• Calculate the maximum and minimum possible values of a measurement.
WEEK 26 wc 24th March	• Convert between metric units of volume.	• Calculate volumes and surface areas of prisms.	• Calculate the area and circumference of a circle. • Calculate area and circumference in terms of π.	• Calculate the perimeter and area of semicircles and quarter circles.
WEEK 27 wc 31st March	• Calculate arc lengths and angles in sectors of circles.	• Calculate the area of sectors of circles.	• Calculate volume and surface area of a cylinder and a sphere.	• Solve problems involving volumes and surface areas.