Mathematics Year 11 Higher
Learning Intentions Spring Half-term 2 2024-2025

	LESSON 1	LESSON 2	LESSON 3	LESSON 4
WEEK 22 wc 24th February	• PAZ 2 EXAM	• Understand and use facts about chords and their distance from the centre of a circle. • Solve problems involving chords and radii.	• Understand and use facts about tangents at a point and from a point. • Give reasons for angle and length calculations involving tangents.	• Understand, prove and use facts about angles subtended at the centre and the circumference of circles. • Find missing angles using these theorems and give reasons for answers.
WEEK 23 wc 3rd March	• Understand, prove and use facts about angles subtended at the circumference of a circle.	• Understand, prove and use facts about cyclic quadrilaterals. • Prove the alternate segment theorem.	• Solve angle problems using circle theorems. • Give reasons for angle sizes using mathematical language.	• Exam practise • Bespoke PAZ review and remedy.
WEEK 24 wc 10th March	• Find the equation of the tangent to a circle at a given point.	• Review of all circle theorem with exam questions.	• Change the subject of a formula where the subject appears twice. • Change the subject of a formula involving fractions where all the variables are in the denominators.	• Exam practise • Bespoke PAZ review and remedy.
WEEK 25 wc 17th March	• Add and subtract algebraic fractions. • Multiply and divide algebraic fractions.	• Simplify algebraic fractions. • Add, subtract, multiply & divide more complex algebraic fractions.	• Solve equations involving algebraic fractions.	• Exam practise Review all surds including rationalising

				the denominator with two terms.
WEEK 26 wc 24th March	• Use function notation. • Find composite functions.	• Find inverse functions.	• Understand and use vector notation. • Work out the magnitude of a vector. • Calculate the resultant of two vectors.	• Exam practise • Bespoke PAZ review and remedy.
WEEK 27 wc 31st March	• Solve problems using vectors. • Use the resultant of two vectors to solve vector problems.	• Prove points are collinear.	• Solve geometric problems in two dimensions using vector methods. • Apply vector methods for simple geometric proofs.	• Exam practise • Bespoke PAZ review and remedy.