Year 10 Higher Mathematics

Learning Intentions Autumn Term 2 2024- 2025

	LESSON 1	LESSON 2	LESSON 3
WEEK 9 wc 4th November	• Write ratios in the form 1 : n or n : 1. • Compare ratios. • Find quantities using ratios.	• Solve problems using ratios, using bar models where appropriate.	• Convert between currencies and measures. • Recognise and use direct proportion.
WEEK 10 wc 11th November	• Solve problems involving ratios and proportion.	• Work out percentage increases and decreases.	• Solve real-life problems involving percentages.
WEEK 11 wc 18th November	• Calculate using fractions, decimals & percentages.	• Convert a recurring decimal to a fraction, using an algebraic approach.	• Master the algebraic approach to convert any recurring decimal to a fraction.
WEEK 12 wc 25th November	• Check, strengthen & extend – fractions, ratio & percentages.	• Draw plans and elevations of 3D solids.	• Reflect a 2D shape in a mirror line. • Rotate a 2D shape about a centre of rotation. • Describe reflections and rotations.
WEEK 13 wc 2nd December	• Enlarge shapes by fractional and negative scale factors about a centre of enlargement.	• Translate a shape using a vector. • Carry out and describe combinations of transformations.	• Draw and use scales on maps and scale drawings. • Solve problems involving bearings.
WEEK 14 wc 9th December	• Construct triangles using a ruler and compasses. • Construct the perpendicular bisector of a line.	• Construct the shortest distance from a point to a line using a ruler and compasses. • Bisect an angle using a ruler and compasses.	• Construct angles using a ruler and compasses. • Construct shapes made from triangles using a ruler and compasses.

WEEK 15 wc 16th December	• Draw a locus.	• Use loci to solve problems.	• Check, strengthen & extend – transformations, constructions & loci.