Maths Year 10 Higher Learning Intentions

Learning Intentions Summer Term 1 2024-2025

	LESSON 1	LESSON 2	LESSON 3	LESSON 4
WEEK 28 wc 21st April	Bank Holiday	• Calculate volume and surface area of pyramids and cones.	• Solve problems involving pyramids and cones.	• Find an amount after repeated percentage changes.
WEEK 29 wc 28th April	• Solve growth and decay problems.	• Calculate rates. • Convert between metric speed measures.	• Use a formula to calculate speed and acceleration.	• Solve problems involving compound measures, including pressure and density.
WEEK 30 wc 5th May	Bank Holiday	• Use relationships involving ratio.	• Use direct and indirect proportion.	• Find the gradient and y-intercept from a linear equation. • Rearrange an equation into the form y = mx + c.
WEEK 31 wc 12th May	• Compare two graphs from their equations. • Plot graphs with equations ax + by = c.	• Sketch graphs using the gradient and intercepts.	• Find the equation of a line, given its gradient and one point on the line. • Find the gradient of a line through two points.	• Draw and interpret distance–time graphs. • Calculate average speed from a distance–time graph.
WEEK 32 wc 19th May	• Understand velocity–time graphs. • Find acceleration and distance from velocity–time graphs.	• Draw and interpret real-life linear graphs. • Recognise direct proportion.	• Find the coordinates of the midpoint of a line segment. • Find the gradient and length of a line segment.	• Find the equations of lines parallel or perpendicular to a given line.