

YEAR 11 Edexcel GCSE (9-1) Mathematics Foundation			
TERM	UNIT / LESSON	PRIOR KNOWLEDGE	LEARNING INTENTIONS
Key: <i>Italic specification references are assumed prior knowledge and are covered in the prior knowledge check rather than the main teaching.</i>			
Wk 8	<h1>Mock Exams</h1>		
30/10/2023			
Wk9			
06/11/2023			
Wk 10	8.3 Area of compound shapes	Know that 1 km = 1000 m	Calculate the perimeter and area of shapes made from triangles and rectangles.
13/11/2023		Multiply and divide by powers of 10.	Calculate areas in hectares, and convert between ha and m ² .
		Convert between metric measures of area.	
	8.4 Surface area of 3D solids	Describe shapes using correct vocabulary, including <i>face, edge and vertex</i> .	Calculate the surface area of a cuboid.
		Sketch the net of a cuboid.	Calculate the surface area of a prism.
		Work out the area of rectangles, triangles and trapezia.	
Wk 11	8.5 Volume of prisms	Identify cross sections of prisms.	Calculate the volume of a cuboid.
20/11/2023		Decide whether a 3D solid is a prism.	Calculate the volume of a prism.
	8.6 More volume and surface area	Multiply and divide by large powers of 10.	Solve problems involving surface area and volume.
		Know that 1 litre = 1000 ml.	Convert between measures of volume.
		Work out the volume and surface area of a prism.	
Wk 12	19.1 Direct proportion	Recognise direct proportion	Write and use equations to solve problems involving direct proportion.
27/11/2023		Write equations for quantities in direct proportion.	
	19.2 More direct proportion	Use direct proportion.	Write and use equations to solve problems involving direct proportion.
		Find the constant of proportionality.	Solve problems involving square and cubic proportionality.
	19.3 Inverse proportion	Using inverse proportion to solve simple problems.	Write and use equations to solve problems involving inverse proportion.
		Write equations for quantities in direct proportion.	Use and recognise graphs showing inverse proportion.
Wk 13	3.7 Scatter graphs	Understand depreciation of value as things age, as well as an understanding of exceptions (e.g. classic cars)	Plot and interpret scatter graphs.
04/12/2023		Plot coordinates in the first quadrant.	Determine whether or not there is a relationship between sets of data.
	3.8 Line of best fit	Recall definitions of positive, negative and no correlation.	Draw a line of best fit on a scatter graph.
		Read values from a graph.	Use the line of best fit to predict values.
Wk 14	16.1 Expanding double brackets	Be able to work out area of a shape using algebraic terms.	Multiply double brackets.
11/12/2023		Simplify algebraic expressions.	Recognise quadratic expressions.
		Multiply a single term over brackets.	Square single brackets.
	16.2 Plotting quadratic graphs	Be able to square terms.	Plot graphs of quadratic functions.
		Identify the equation of the mirror line.	Recognise a quadratic function.
		Copy and complete a table of values and plot a straight line graph.	Use quadratic graphs to solve problems.