

YEAR 11 Edexcel GCSE (9-1) Mathematics Higher			
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>			
	Baseline Assessment + Feedback		
Wk 1 04/09/2023	5 Angles and trigonometry	Rearrange simple formulae and equations, as preparation for rearranging trig formulae. Recall basic angle facts.	
	5.4 Pythagoras' theorem 1	Recall square numbers and square roots. Find the area of a square.	Calculate the length of the hypotenuse in a right-angled triangle. Solve problems using Pythagoras' theorem.
	5.4 Pythagoras' theorem 1	Find square roots. Recognise perfect squares. Use Pythagoras' theorem to find the length of the hypotenuse.	Calculate the length of a shorter side in a right-angled triangle. Solve problems using Pythagoras' theorem.
Wk 2 11/09/2023	5.6 Trigonometry 1	Convert fractions to decimals. Identify the hypotenuse. Use the angle sum of a triangle to work out missing angles.	Use trigonometric ratios to find lengths in a right-angled triangle. Use trigonometric ratios to solve problems.
	5.7 Trigonometry 2	Identify the opposite and adjacent sides of a given angle in right-angled triangles. Use the trigonometric ratios to find lengths in right-angled triangles.	Use trigonometric ratios to calculate an angle in a right-angled triangle. Find angles of elevation and angles of depression. Use trigonometric ratios to solve problems. Know the exact values of the sine, cosine and tangent of some angles.
Wk 3 18/09/2023	9.4 Solving simple simultaneous equations	Substitute into simple algebraic expressions. Rearrange equations.	Solve simple simultaneous equations. Solve simultaneous equations for real-life situations.
	9.5 More simultaneous equations	Recall the equation of a straight line. Solve simple simultaneous equations.	Use simultaneous equations to find the equation of a straight line. Solve linear simultaneous equations where both equations are multiplied. Interpret real-life situations involving two unknowns and solve them.
Wk 4 25/09/2023	9.6 Solving linear and quadratic simultaneous equations	Identify different types of equations. Solve quadratic equations.	Solve simultaneous equations with one quadratic equation. Use real-life situations to construct quadratic and linear equations and solve them.
Wk 5 02/10/2023	10.4 Independent events and tree diagrams	Add and multiply fractions and decimals.	Draw and use frequency trees. Calculate probabilities of repeated events. Draw and use probability tree diagrams.
	10.5 Conditional probability	Know that the probability of something not happening is 1 minus the probability of the event happening. Draw and use probability tree diagrams.	Decide if two events are independent. Draw and use tree diagrams to calculate conditional probability. Draw and use tree diagrams without replacement. Use two-way tables to calculate conditional probability.
	10.6 Venn diagrams and set notation	Interpret inequalities. Use Venn diagrams.	Use Venn diagrams to calculate conditional probability. Use set notation.
Wk 6 09/10/2023	19.1 Direct proportion	Recognise direct proportion Write equations for quantities in direct proportion.	Write and use equations to solve problems involving direct proportion.
	19.2 More direct proportion	Use direct proportion. Find the constant of proportionality.	Write and use equations to solve problems involving direct proportion. Solve problems involving square and cubic proportionality.
	19.3 Inverse proportion	Using inverse proportion to solve simple problems. Write equations for quantities in direct proportion.	Write and use equations to solve problems involving inverse proportion. Use and recognise graphs showing inverse proportion.
Wk 7 16/10/2023	17.1 Rearranging formulae	Substitute into linear equations. Change the subject of a formula. Factorise linear expressions.	Change the subject of a formula where the power of the subject appears. Change the subject of a formula where the subject appears twice.
	17.2 Algebraic fractions	Simplify numeric fractions and fractions containing simple algebraic terms. Add and multiply numeric fractions.	Add and subtract algebraic fractions. Multiply and divide algebraic fractions. Change the subject of a formula involving fractions where all the variables are in the denominators.
	17.3 Simplifying algebraic fractions	Factorise expressions by identifying the common factor between two terms. Simplify fractions containing simple algebraic terms. Factorise quadratic expressions of the form $x^2 + bx + c$	Simplify algebraic fractions.
	17.4 More algebraic fractions	Simplify algebraic fractions by cancelling common factors. Add, subtract, divide and multiply fractions containing simple algebraic terms.	Add and subtract more complex algebraic fractions. Multiply and divide more complex algebraic fractions.