

YEAR 9 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>			
AUTUMN	1 Number (HIGHER)	<p>Have a firm grasp of place value and be able to order integers and decimals and use the four operations.</p> <p>Know integer complements to 10 and to 100, multiplication facts to 10×10, strategies for multiplying and dividing by 10, 100 and 1000. Have encountered squares, square roots, cubes and cube roots and have knowledge of classifying integers.</p>	
Wk 1 04/09/2023	Baseline Assessment + Feedback	Estimate the value of a square root.	Estimate an answer.
	1.2 Place value and estimating	Round numbers to a specified degree of accuracy.	Use place value to answer questions.
		Apply the four operations.	
Wk 2 11/09/2023	1.3 HCF and LCM	Multiply prime factors together. List the factors of a number.	Write a number of the product of its prime factors. Find the HCF and LCM of two numbers.
	1.4 Calculating with powers (indices)	Work out simple powers.	Use powers and roots in calculations.
Wk 3 18/09/2023		Apply the four operations.	Multiply and divide using index laws. Work out a power raised to a power.
	2 Algebra (HIGHER)	<p>Use negative numbers with the four operations and recall and use hierarchy of operations and understand inverse operations. Use a calculator for decimals and negative numbers.</p> <p>Use index laws numerically. Use and interpret algebraic notation. Set up and solve simple equations. Recall the definitions of geometric and arithmetic sequences.</p>	
Wk 4 25/09/2023	2.1 Algebraic indices	Recognise that squaring and taking the square roots, and cubing and taking the cube root, are inverse operations. Calculate with powers.	Use the rules of indices to simplify algebraic expressions.
	2.2 Expanding and factorising	Simplify algebraic terms, including using index notation. Multiply a single term over a bracket. Find highest common factors.	Expand brackets. Factorise algebraic expressions.
Wk 5 02/10/2023			
	2.7 More expanding and factorising	Recalling a square root.	Expand the product of two brackets.
Wk 6 09/10/2023		Finding the factor pairs of small integers.	Use the difference of two squares. Factorise quadratics of the form $x^2 + bx + c$.
Wk 7 16/10/2023	CHECK, STRENGTHEN, EXTEND + REVISION		
	HALF-TERM TEST		