

YEAR 10 Edexcel GCSE (9-1) Mathematics Foundation				
TERM	UNIT / LESSON	HOURS	PRIOR KNOWLEDGE	LEARNING INTENTIONS
Key: Italic specification references are assumed prior knowledge and are covered in the prior knowledge check rather than the main teaching.				
AUTUMN 1	1 Number	13	<p>Identify the value of digits in a whole number or decimal. Round to the nearest integer, and to a given power.</p> <p>Apply the four operations. Recall all multiplication facts to <math>10 \times 10</math>, and use them to derive quickly the corresponding division facts. Know strategies for multiplying and dividing whole numbers by 2, 4, 5 and 10. Recognise odd and even numbers. Use brackets and the hierarchy of operations (not including powers). Understand and use positive and negative numbers.</p> <p>Interpret scales on thermometers using °F and °C (positive and negative).</p>	
Wk 1 04/09/2023	Baseline Assessment + Feedback		Order positive and negative integers and decimals.	Use priority of operations with positive and negative numbers.
	1.1 Calculations		Use the symbols =, <, > Find a fraction of a number. Recall square numbers. Understand the commutative property of multiplication.	Simplify calculations by cancelling. Use inverse operations.
	1.2 Decimal numbers		Identify place value. Convert between metric measures.	Round to a given number of decimal place. Multiply and divide decimal numbers.
Wk 2 11/09/2023	1.3 Place value		Round to the nearest 100, 10 and whole number.  Multiply and divide by powers of 10.	Write decimal numbers of millions.  Round to a given number of significant figures. Estimate answers to calculations. Use one calculation to find the answer to another.
	1.4 Factors and multiples		Understand the meaning of the words prime, factor, multiple and product. List the multiples of a given number.	Recognise 2-digit prime numbers.  Find factors and multiples of numbers. Find common factors and common multiples of two numbers. Find the HCF and LCM of two numbers by listing.
Wk 3 18/09/2023	1.5 Squares, cubes and roots		Understand the meaning of the words prime, factor, multiple and product. Round numbers to a specified degree of accuracy.	Find square roots and cube roots.  Recognise powers of 2, 3, 4 and 5.
	1.6 Index notation		Use simple powers of 10. Convert between metric units. Evaluate numeric expressions with powers.	Understand surd notation on a calculator. Find square roots and cube roots. Recognise powers of 2, 3, 4 and 5. Understand surd notation on a calculator.
Wk 4 25/09/2023	1.7 Prime factors		List the factors of numbers; identify which factors are prime. Evaluate numeric expressions with powers.	Write a number as the product of its prime factors.  Use prime factor decomposition and Venn diagrams to find the HCF and LCM.
	2 Algebra	12	Use the four operations with positive and negative integers. Recall and use the hierarchy of operations. Evaluate numerical expressions involving powers and roots. Multiply and divide numbers with indices. Find the HCF of two numbers. Simplify simple algebraic expressions.	
Wk 5 02/10/2023	2.1 Algebraic expressions		Simplify simple algebraic expressions.	Use correct algebraic notation. Write and simplify expressions.
	2.2 Simplifying expressions		Multiply and divide simple terms. Calculate with positive and negative integers. Use index notation.	Use the index laws. Multiply and divide expressions.
	2.3 Substitution		Recognise equivalent expressions. Calculate with positive and negative integers. Apply the four operations.	Substitute numbers into expressions.
Wk 6 09/10/2023	2.4 Formulae		Calculate with negative numbers and terms.  Recall square numbers. Substitute into and evaluate expressions. Write simple expressions.	Recognise the difference between a formula and an expression.  Substitute numbers into a simple formula.
	2.5 Expanding brackets		Multiply negative and positive terms. Simplify algebraic expressions. Write simple formulae.	Expand brackets. Simplify expressions with brackets. Substitute numbers into expressions with brackets and powers.
Wk 6 09/10/2023	2.6 Factorising		Find HCFs of number pairs. Multiply a single term over brackets.	Recognise factors of algebraic terms. Factorise algebraic expressions. Use the identity symbol $\equiv$ and the not equals symbol $\neq$
	2.7 Using expressions and formulae		Write simple expressions.  Substitute into and evaluate expressions.	Write expressions and simple formulae to solve problems.  Use maths and science formulae.
Wk 7 16/10/2023	CHECK, STRENGTHEN, EXTEND + REVISION HALF-TERM TEST			