YEAR 10	Edexcel GCSE (9-1) Mathematics		Foundation
TERM	**UNIT / LESSON**	**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.	
Wk 1 04/09/2024	1.1 Calculations	Order positive and negative integers and decimals. Use the symbols =, <, > Find a fraction of a number. Recall square numbers. Understand the commutative property of multiplication.	Use priority of operations with positive and negative numbers. 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 09/09/2024	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.	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 16/09/2024	1.5 Squares, cubes and roots	Round numbers to a specified degree of accuracy.	Find square roots and cube roots. Recognise powers of 2, 3, 4 and 5. Understand surd notation on a calculator.
	1.6 Index notation	Use simple powers of 10. Convert between metric units. Evaluate numeric expressions with powers.	Find square roots and cube roots. Recognise powers of 2, 3, 4 and 5. Understand surd notation on a calculator.
	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	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 4 23/09/2024	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 5 30/09/2024	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 07/10/2024	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 ≡ and the not equals symbol ≠
	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.
AUTUMN	**4 Fractions and percentages**	Use the four operations of number. Find common factors. Have a basic understanding of fractions as being 'parts of a whole' and be able to write one value as a fraction of another. Define percentage as 'number of parts per hundred'. Know number complements to 10 and multiplication tables. Convert between common fractions, decimals and percentages.	
Wk 7 14/10/2024	4.1 Working with fractions	Identify equivalence in fractions. Identify the denominator of a fraction. Identify the numerator of a fraction. Find the LCM. Write fractions in their simplest form.	Compare fractions. Add and subtract fractions. Use fractions to solve problems.
	4.2 Operations with fractions	Convert between units of length. Add and subtract fractions. Convert between mixed numbers and improper fractions.	Find a fraction of a quantity or measurement. Use fractions to solve problems.
Wk 8 21/10/2024 PAZ 1	CHECK, STRENGTHEN, EXTEND + REVISION		
	HALF-TERM		