CURRICULUM CORE KNOWLEDGE PLAN

SUBJECT: Mathematics YEAR GROUP: Year 8 DATE: HT3

Term and unit	Core knowledge	Core vocabulary	Revisiting prior knowledge	Links to Walney Ways & Employability skills/Careers
Spring Term 2.1 – Algebraic Techniques – Brackets, equations and inequalities (4 weeks)	• Form algebraic expressions • Use directed number with algebra • Multiply out a single bracket • Factorise into a single bracket • Expand multiple single brackets and simplify • **Expand a pair of binomials** • Solve equations, including with brackets • Form and solve equations with brackets • Understand and solve simple inequalities • Form and solve inequalities • **Solve equations and inequalities with unknowns on both sides** • **Form and solve equations and inequalities with unknowns on both sides** • Identify and use formulae, expressions, identities and equations • **Bold = Higher content**	Expression Simplify Term Substitute Equivalent Solve Expand Bracket Identity Factorise Like terms Binomial Quadratic Equation Unknown Solution Inequality Satisfy Formula Variable Subject		

Spring Term 2.2 – Algebraic Techniques – Sequences (1 week)	• Generate sequences given a rule in words • Generate sequences given a simple algebraic rule • Generate sequences given a complex algebraic rule • **Find the rule for the nth term of a linear sequence** • **Bold = Higher content**	Sequence Position Term Linear Fibonacci Difference Term-to-term Substitute Constant Algebraic		
Spring Term 2.3 – Algebraic Techniques – Indices (1 week)	• Adding and subtracting expressions with indices • Simplifying algebraic expressions by multiplying indices • Simplifying algebraic expressions by dividing indices • Using the addition law for indices • Using the addition and subtraction law for indices • **Exploring powers of powers** • **Bold = Higher content**	Expression Simplify Term Index Power Numerator Denominator Base Exponent		