



CURRICULUM CORE KNOWLEDGE PLAN

SUBJECT: Mathematics

YEAR GROUP: Year 11

DATE: HT2

Term and unit	Core knowledge	Core vocabulary	Revisiting prior knowledge	Links to Walney Ways & Employability skills/Careers
Autumn Term 2.1 – Expanding and Factorising (2 weeks)	- Expand and factorise with a single bracket (R) - Expand binomials (R) - Factorise quadratic expressions - Solve equations equal to zero - Solve quadratic equations by factorising Factorise complex quadratic expressions (H) Solve complex quadratic equations by factorising (H) Complete the square (H) Solve quadratics equations using the formula (H) Bold = higher content	Expand Factorise Coefficient HCF Quadratic Expression Solution Solve Formula Substitute Surd Significant figures	Topics marked with (R)	
Autumn Term 2.2 – Changing the subject (2 weeks)	- Solve linear equations (R) - Solve inequalities (R) - Change the subject of a simple formula (R) - Form and solve equations/inequalities in the context of geometry - Change the subject of a known formula - Change the subject of a complex formula Change the subject where the subject appears more than once (H) Solve equations by iteration (H)	Inequality Solution set Greater than/equal to Less than/equal to Form Solve Check Equation Subject	Topics marked with (R)	



	Bold = Higher content	Re-arrange Inverse Iterate Converge		
Autumn Term 2.3 – Functions (2 weeks)	• Use function machines (R) • Substitute into expressions and formulae (R) • Understand and use trigonometric functions (R) • Use function notation • Graphs of quadratic functions • Work with composite functions (H) • Work with inverse functions (H) • Solve quadratic inequalities (H) Bold = higher content	Input Output Function Inverse Variable Evaluate Solve Substitute Composite Quadratic Intercept Turning point Roots Solutions Inequality Solve Solution set Sine Cosine Tangent Opposite Adjacent Hypotenuse	Topics marked with (R)	



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