



CURRICULUM CORE KNOWLEDGE PLAN

SUBJECT: Mathematics

YEAR GROUP: Year 10

DATE: HT2

Term and unit	Core knowledge	Core vocabulary	Revisiting prior knowledge	Links to Walney Ways & Employability skills/Careers
Autumn Term 2.1 – Representing Solutions of Equations and Inequalities (3 weeks)	- Understand the meaning of a solution - Show solutions to inequalities on a number line - Interpret representations on number lines as inequalities Represent solutions to inequalities using set notation - Find solutions to equations using straight line graphs Represent solutions to single inequalities on a graph Represent solutions to multiple inequalities on a graph - Form and solve inequalities with unknowns on both sides - Form and solve more complex equations and inequalities Solve quadratics equations by factorisation Solve quadratic inequalities in one variable Bold = Higher content	Solution Variable Equation Expression Identity Linear Intersection Inequality	- Form and solve one-step and two-step equations - Form and solve one-step and two-step inequalities - Draw straight line graphs - Form and solve equations with unknowns on both sides	
Autumn Term 2.2 – Simultaneous Equations (3 weeks)	- Understand that equations can have more than one solution - Determine whether a given (x,y) is a solution to a pair of linear simultaneous equations - Solve a pair of linear simultaneous equations by substituting a known variable	Solution Variable Equation Substitute LCM Eliminate Expression	Use a given equation to derive related facts	



	• Solve a pair of linear simultaneous equations by substituting an expression • Solve a pair of linear simultaneous equations using graphs • Solve a pair of linear simultaneous equations by subtracting equations • Solve a pair of linear simultaneous equations by adding equations • Solve a pair of linear simultaneous equations by adjusting one equation • Solve a pair of linear simultaneous equations by adjusting both equations • Form a pair of linear simultaneous equations from given information • Form and solve a pair of linear simultaneous equations from given information • Determine whether a given (x,y) is a solution to both a linear and quadratic equation • Solve a pair of linear simultaneous equations (one linear, one quadratic) using graphs • Solve a pair of linear simultaneous equations (one linear, one quadratic) algebraically • Solve a pair of linear simultaneous equations involving a third unknown • Bold = Higher content	Co-ordinate Intersection		
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