CURRICULUM CORE KNOWLEDGE PLAN

SUBJECT: Mathematics YEAR GROUP: Year 9 DATE: HT3

Term and unit	Core knowledge	Core vocabulary	Revisiting prior knowledge	Links to Walney Ways & Employability skills/Careers
Spring Term 1.1 – Numbers (2 weeks)	• Integers, real and rational numbers • **Understand and use surds** • Work with directed number • Solve problems with integers • Solve problems with decimals • HCF and LCM • Adding and subtracting fractions • Multiplying and dividing fractions • Solve problems with fractions • Calculate with numbers in standard form **Bold = higher content**	Integer Irrational Real Rational Root Square root Simplify Surd Positive Negative Inverse Directed Square Cube Operation Product Sum Difference Remainder Adjust Compensate Factor Multiple		

		Prime HCF LCM Mixed number Numerator Denominator Improper fraction Power Exponent Index Million Billion		
Spring Term 1.2 – Using Percentages (2 weeks)	• Use the equivalence of fractions, decimals and percentages • Calculate percentage increase and decrease • Express a change as a percentage • Solve reverse percentage problems • Recognise and solve percentage problems (non-calculator) • Recognise and solve percentage problems (calculator) • **Solve problems with repeated percentage change** **Bold = Higher content**	Fraction Decimal Percentage Convert Equivalent Increase Decrease Reduce Multiplier Profit Loss Original Change Reverse Bar model Depreciate Power/exponent		
Spring Term 1.3 –	• Solve problems with bills and bank statements	Total		

Maths and Money (2 weeks)	• Calculate simple interest • Calculate compound interest • Solve problems with Value Added Tax • Calculate wages and taxes • Solve problems with exchange rates • Solve unit pricing problems	Balance Debit Credit Expense Bill Percentage Deposit Interest Principal Annual Rate Compound Multiplier Annum Tax VAT Original Annual Income Salary Wage Exemption Overtime Currency Exchange Convert Value Cost Unitary Proportion		


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