



CURRICULUM CORE KNOWLEDGE PLAN

SUBJECT: Mathematics

YEAR GROUP: Year 7

DATE: HT3

Term and unit	Core knowledge	Core vocabulary	Revisiting prior knowledge	Links to Walney Ways & Employability skills/Careers
Spring Term 1.1 – Application of number – Addition and Subtraction (2 weeks)	• Properties of addition and subtraction • Mental strategies for addition and subtraction • Use formal methods for addition of integers • Use formal methods for addition of decimals • Use formal methods for subtraction of integers • Use formal methods for subtraction of decimals • Choose the most appropriate method: mental strategies, formal written or calculator • Solve problems in the context of perimeter • Solve financial maths problems • Solve problems involving tables and timetables • Solve problems with frequency trees • Solve problems with bar charts and line charts • Add and subtract numbers given in standard form (H)	Total Difference Sum Commutative Associative Inverse Number bonds Column Method Carrying Addition Subtraction Formal method Profit Loss Credit Debit Hours Minutes Frequency Frequency Tree		



Spring Term 1.2 – Application of Number – Multiplication and Division (3 weeks)	• Properties of multiplication and division • Understand and use factors • Understand and use multiples • Multiply and divide integers and decimals by powers of 10 • Multiply by 0.1 and 0.01 (H) • Convert metric units • Use formal methods to multiply integers • Use formal methods to multiply decimals • Use formal methods to divide integers • Use formal methods to divide decimals • Understand and use order of operations • Solve problems using the area of rectangles and parallelograms • Solve problems using the area of triangles • Solve problems using the area of trapezia (H) • Solve problems using the mean • Explore multiplication and division in algebraic expressions (H)	Product Multiply Divide Inverse Quotient Commutative Factor Venn Diagram Lowest Common Multiple Metric Dividend Remainder Order Operation Priority Parallelogram Trapezium Mean Coefficient Expression Simplify		
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Spring Term 1.3 – Application of Number – Fractions & Percentages of amounts (1 weeks)	• Find a fraction of a given amount • Use a given fraction to find the whole and/or other fractions • Find a percentage of a given amount using mental methods • Find a percentage of a given amount using a calculator • Solve problems with fractions greater than 1 and percentages greater than 100% (H)	Fraction Numerator Denominator Whole Original Percent		
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