LONG TERM PLANS

Year Overview

Faculty: Mathematics	
YEAR 9	
Autumn term	
Half Term 1	**Half Term 2**
More advanced number work: Prime factorisation, sets. Primes, indices and roots; prime factorisation to find LCM, HCF, sets and unions calculate and evaluate expressions with rational numbers	**Algebraic expressions and equations:** Negative numbers (incl. fractions, decimals, indices); linear equations; expressions and equations with rational numbers.
Spring term	
Half Term 1	**Half Term 2**
Proportional reasoning Ratio (equivalent, of a quantity), scale drawing and maps Convert between percentages and fractions and decimals; Percentage increase and decrease, finding the whole given the part and the percentages	**2D geometry** Accurate drawing; find unknown angles; (including parallel lines); area and perimeter of composite shapes, area of parallelogram and trapezium; rounding ,significant figures; circumference and area of a circle; visualise and identify 3D shapes and their nets.
Summer term	
Half Term 1	**Half Term 2**
3D geometry Volume of cuboid, prism, cylinder, composite shape	**Statistics** Collecting and organising data; construction and interpretation of graphs, incl. histograms; interpret and compare statistical representations; mean, mode and median averages incl grouped data