

Autumn Term		Spring Term		Summer Term	
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
8 Number Work out common factors (including the HCF) and common multiples (including the LCM). Use approximations to estimate answers to calculations involving one operation (for example, $31.8 \times 0.053 \approx 30 \times 0.05 = 1.5$). Understand the rationale behind standard index form, and how it can be used to express and compare large and small numbers.	Algebra Draw graphs of simple linear functions, expressed in the form $y = mx + c$ or $ax + by = c$. Work out the gradient of a line, and understand the standard form of a straight line graph. Identify parallel lines from their equations. Draw and interpret graphs arising from real-life situations, such as distance-time graphs. Solve linear equations in one variable involving fractions.	2D Geometry Realise that the shortest distance from a point to a given line is the perpendicular from that line to the point, and construct it using straight-edge and compasses only. Enlarge shapes by a positive fractional scale factor from a centre of enlargement. Understand the use of vectors to describe displacements. Solve problems involving the use of bearings.	Number Perform calculations relating to distance, speed and time, using standard units. Solve problems involving simple and compound interest and depreciation. Solve problems involving compound units (e.g. density, cost per 100 g).	2D and 3D Geometry Know and use the formulae for the volume of a cuboid and the volume of a prism, including cylinders. Work out the surface area of a cuboid, cylinder and other simple prisms. Calculate the volume of prisms with complex cross-sections. Convert between metric units of length, area and volume	Data Use and understand terminology relating to samples and populations. Understand the practicalities of sampling and the reliability of the results. Work out the quartiles and interquartile range of a simple data set, and use them appropriately in describing a distribution. Understand the meaning of the term 'outlier' and use it appropriately in describing distributions. Calculate the mean of a frequency distribution for grouped or ungrouped data, and identify the modal class.
9 Number Calculations, checking & rounding Indices, roots, reciprocals and hierarchy of operations Factors, multiples and primes Standard form and surds	Algebra Algebra the basics Setting up, rearranging and solving equations Sequences Problem solving	Geometry Pythagoras and Trigonometry Polygons angles & parallel lines	Data Scatter graphs Percentages (CWEST mortgages)	Number Ratio and Proportion Fractions Percentages	Geometry Graphs, the basics & real life graphs Quadratic and Cubic graphs

	ALGEBRA
	GEOMETRY
	NUMBER
	DATA
	GCSE REVISION