

SCHEME 6		
Autumn	Spring	Summer
Understand and use congruence . Know from construction that SSS, SAS, ASA, RHS are unique but that ASS isn't and AAA is similarity.	Understand how to multiply, divide and simplify square roots (SURDS)	Factorise into double brackets and solve quadratic equations by factorising
Find nth term of quadratic sequences	Substitution of fractions, decimals and negative numbers into algebraic expressions	Generate points and plot graphs of simple quadratic functions and use these to find approximate solutions to corresponding equations
Solve direct and inverse proportion problems	Understand how to use both the elimination and the substitution methods to solve simultaneous linear equations	Use & prove circle theorems
Rearrange formulae ; change the subject of formulae where the subject appears once	<u>Investigate</u> functions of perpendicular lines	Volume and surface area of pyramids
APP	APP	APP
Repeated proportional change including calculation of the original given the result of a proportional change	Explore trigonometrical relationships in right angled triangles and use these to solve problems	Use tree diagrams to calculate probabilities of combinations of independent events
Find gradient and y-intercept of <u>any</u> given linear function	Be able to convert recurring decimals to exact fractions (informal discussion of rational/irrational numbers)	Apply addition and subtraction of vectors including multiplication by a scalar
Draw and interpret histograms	Investigate negative and fractional index numbers using ICT	Calculations involving upper and lower bounds
Enlargement with negative scale factors	Use ICT to investigate linear, quadratic, cubic and reciprocal graphs	
APP	APP	APP

