

KEVI CAMP HILL SCHOOL FOR GIRLS

MATHS

CURRICULUM MAP (YEARS 7-13)



**KING EDWARD VI
CAMP HILL
SCHOOL FOR GIRLS**

Educational excellence for our City

	AUTUMN TERM	SPRING TERM	SUMMER TERM
YEAR 7	<ul style="list-style-type: none"> Integers, Fractions & Decimals Sequences Fractions, Decimals & Percentages Geometric properties of shape – area, perimeter & volume 	<ul style="list-style-type: none"> Metric & Imperial Units Simplifying, Expanding, Factorising, Equation solving Factors, Multiples & Primes Angles 	<ul style="list-style-type: none"> Symmetry Probability Averages & Charts Rounding, Estimating & BIDMAS
YEAR 8	<ul style="list-style-type: none"> Pythagoras' Theorem Circles, volumes & surface area Percentages Probability & Venn diagrams 	<ul style="list-style-type: none"> Transformations Presenting Data, quartiles & comparing data Re-arranging formulae, equation solving, expanding quadratics, inequalities 	<ul style="list-style-type: none"> Constructions Straight Line Graphs Compound Measures Boundaries & Accuracy
YEAR 9	<ul style="list-style-type: none"> Pythagoras in 3D, Trigonometry, Bearings Linear & Quadratic Sequences Fraction Calculations Fractions, Percentages, Ratio & Proportion Arc Length & Sector Area 	<ul style="list-style-type: none"> Line, conversion & quadratic graphs Linear & simultaneous equations Inequalities & regions Ration, direct proportion, compound measures 	<ul style="list-style-type: none"> Recurring decimals to fractions Quadratics & re-arranging Indices & Standard Form Probability & tree diagrams Surds
YEAR 10	<ul style="list-style-type: none"> Quadratic equations HCF, LCM, Negative numbers, Significant figures Sampling, Capture recapture, cumulative frequency, histograms Area, volume, cones, spheres 	<ul style="list-style-type: none"> Angles, scale drawing, bearings Indices, Surds, Accuracy Choices & Outcomes Probability 	<ul style="list-style-type: none"> Similarity, Congruence, scale factors Circle Theorems Direct & Inverse Proportion Functions & algebraic fractions
YEAR 11	<ul style="list-style-type: none"> Trigonometry Trig Graphs Gradient & area under a graph Types of graph Translating graphs 	<ul style="list-style-type: none"> Vectors Quadratic & non-linear simultaneous equations Quadratic inequalities 	<ul style="list-style-type: none"> Revision & exam technique Final exams

<p>YEAR 12</p>	<ul style="list-style-type: none"> • Algebraic expressions • Quadratics • Equations and inequalities • Graphs and transformations • Straight-line graphs • Circles • Algebraic methods • Modelling in mechanics • Constant acceleration • Forces and motion 	<ul style="list-style-type: none"> • The binomial expansion • Trigonometric ratios • Trigonometric identities and equations • Differentiation • Representations of data • Correlation • Probability 	<ul style="list-style-type: none"> • Integration • Exponentials and logarithms • Variable acceleration • Algebraic methods (2) • Statistical distributions • Hypothesis testing • Data collection • Measures of location and spread
<p>YEAR 13</p>	<ul style="list-style-type: none"> • Functions and graphs • Radians • Trigonometric functions • Trigonometry and modelling • Differentiation (1) • Regression, correlation and hypothesis testing • Conditional probability • The normal distribution 	<ul style="list-style-type: none"> • Parametric equations • Differentiation (2) • Binomial expansion • Integration • Numerical methods • Sequences and series • Forces and friction • Moments • Projectiles • Application of forces 	<ul style="list-style-type: none"> • Vectors • Further kinematics • Revision and exam preparation • Final exams