

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	- Integers, Fractions & Decimals - Sequences - Fractions, Decimals & Percentages - Geometric properties of shape – area, perimeter & volume	- Metric & Imperial Units - Simplifying, Expanding, Factorising, Equation solving - Factors, Multiples & Primes - Angles	- Symmetry - Probability - Averages & Charts - Rounding, Estimating & BIDMAS
YEAR 8	- Pythagoras' Theorem - Circles, volumes & surface area - Percentages - Probability & Venn diagrams	- Transformations - Presenting Data, quartiles & comparing data - Re-arranging formulae, equation solving, expanding quadratics, inequalities	- Constructions & Loci - Straight Line Graphs - Compound Measures - Boundaries & Accuracy
YEAR 9	- Pythagoras in 3D, Trigonometry, Bearings - Linear & Quadratic Sequences - Fraction Calculations - Fractions, Percentages, Ratio & Proportion - Arc Length & Sector Area	- Line, conversion & quadratic graphs - Linear & simultaneous equations - Inequalities & regions - Ration, direct proportion, compound measures	- Recurring decimals to fractions - Quadratics & re-arranging - Indices & Standard Form - Probability & tree diagrams - Surds
YEAR 10	- Quadratic equations - HCF, LCM, Negative numbers, Significant figures - Sampling, Capture recapture, cumulative frequency, histograms - Area, volume, cones, spheres	- Angles, scale drawing, bearings - Indices, Surds, Accuracy - Choices & Outcomes - Probability	- Similarity, Congruence, scale factors - Circle Theorems - Direct & Inverse Proportion - Functions & algebraic fractions
YEAR 11	- Trigonometry - Trig Graphs - Gradient & area under a graph - Types of graph - Translating graphs	- Vectors - Quadratic & non-linear simultaneous equations - Quadratic inequalities	- Revision & exam technique - Final exams

YEAR 12	• Algebraic expressions • Quadratics • Equations and inequalities • Graphs and transformations • Straight-line graphs • Circles • Algebraic methods • Statistical distributions • Hypothesis testing • Data collection • Measures of location and spread	• The binomial expansion • Trigonometric ratios • Trigonometric identities and equations • Differentiation • Representations of data • Correlation • Probability • Modelling in mechanics • Constant acceleration	• Integration • Exponentials and logarithms • Forces and motion • Variable acceleration • Algebraic methods (2)
YEAR 13	• Functions and graphs • Radians • Trigonometric functions • Trigonometry and modelling • Differentiation (1) • Forces and friction • Moments • Projectiles	• Parametric equations • Differentiation (2) • Binomial expansion • Integration • Numerical methods • Sequences and series • Application of forces • Regression, correlation and hypothesis testing • Conditional probability • The normal distribution	• Vectors • Further kinematics • Revision and exam preparation • Final exams