WOOTTON UPPER SCHOOL

MATHS DEPARTMENT Foundation

LEARNING JOURNEY

POST-16 PATHWAY

Continue your lifelong love of learning and personal development

Firm up your post 16 pathway

YEAR 11

Term 1
Fractions, Indices & Standard Form – Mixed numbers, laws of indices, standard form
Congruence, Similarity & Vectors – Similar shapes, congruence, vectors

Term 2
Algebra II – Drawing cubic and reciprocal graphs, simultaneous equations, changing the subject
Constructions – Constructing triangles, perpendicular/angle bisectors, loc

Term 3
Review, consolidation, Intervention and GCSE exam practice

Term 4
Review, consolidation, Intervention and GCSE exam practice

Term 5
Review, consolidation, Intervention and GCSE exam practice

Term 6
Review of Year 9 and Year 10

YEAR 10

Term 1
Perimeter, Area & Volume I – Converting units, perimeter, area, compound shapes, surface area, volume
Graphs – Gradients, real-life graphs, distance-time graphs, velocity-time graphs, y=mx+c, sketching linear graphs

Term 2
Transformations – Translation, rotation, reflection, enlargement, combined transformations
Ratio & Proportion – Simplifying ratios, ratios as fractions, unitary methods, recipes, exchange rates

Term 3
Right-angled Triangles – Pythagoras' Theorem, trigonometry
Probability – Listing outcomes, sample-space diagrams, two-way tables, mutually exclusive, relative frequency, venn diagrams, tree diagrams

Term 4
Multiplicative Reasoning – Percentage change, reverse percentages, compound interest, density, pressure, direct/inverse proportion
Constructions, Loci, Angles II & Bearings – Plans and elevation, constructing triangles, map scales, perpendicular/angle bisectors, loci, bearings

Term 5
Quadratic Equations/graphs – Expanding double brackets, factorising quadratics, solving quadratics, drawing quadratic graphs
Perimeter, Area & Volume 2 – Circumferences, area of a circle, sectors, cylinders, cones, pyramids, spheres

Term 6
Angles – Angle facts, triangles, quadrilaterals, parallel lines, missing angles, regular polygons, interior/exterior angles
Averages & Range – Mean, median, mode, range, estimating mean

Term 5
Equations, inequalities & Sequences – Solving equations, changing the subject, solving inequalities, sequences

YEAR 9

Attend Year 8 transition days

Term 1
Number – Negatives, BIDMAS, rounding, multiplying/dividing decimals, estimation, indices, factors, multiples and primes, HCF and LCM

Term 2
Algebra – Notation, simplifying, expanding, factorising, substitution, forming expressions.

Term 3
Graphs, Tables & Charts – Timetables, distance-charts, two-way tables, pictograms, bar charts, pie charts, scatter graphs

Term 4
Fractions & Percentages – Simplifying and ordering fractions, improper fractions and mixed numbers, fraction arithmetic, FDP, express as a percentage, percentage of amounts, percentage increase/decrease

welcome