MATHS CURRICULUM

INTENT: Mathematics increases students' resilience for problem solving when they have limited information. It teaches them how to think and work systematically, critically analyse information and effectively communicate the steps within their thinking. Our curriculum adopts a 'no tricks' approach to teaching, developing a growth mindset: everybody can do mathematics. We aim to increase awareness and understanding of where the mathematics is used in the real world to enable our students to be 'school ready, work, ready, life ready'.

Year 10

- VECTORS
- PYTHAGORAS & TRIGONOMETRY
- CONSTRUCTIONS & LOCI
- OTHER GRAPHS
- NON-CALC SKILLS
- QUADRATICS
- AVERAGES
- ACCURACY & BOUNDS
- CUMULATIVE FREQUENCY & BOX PLOTS
- SIMILARITY & CONGRUENCE
- COMPOUND UNITS
- PROPORTION

Y11 March Mock Exams

- ITERATION & SIMULTANEOUS EQUATIONS
- GRAPH TRANSFORMATIONS
- CONSTRUCTIONS & LOCI
- NON-RIGHT ANGLED TRIGONOMETRY
- VECTORS
- $x \propto y$ RATIO & PROPORTION
- GRAPHS
- FDP
- FUNCTIONS
- $x = \frac{-b \pm \sqrt{b^2-4ac}}{2a}$ QUADRATIC EQUATIONS
- HISTOGRAMS, CUMULATIVE FREQUENCY & BOX PLOTS

Y11 November Mock Exams

- INEQUALITIES AND SIMULTANEOUS EQUATIONS
- RATIO & PROPORTION
- ARCS & SECTORS
- SEQUENCES $2,\ 5,\ 8,\ 11,\ 14,\ldots$
- POWERS, ROOTS & STANDARD FORM
- PROBABILITY TREES & VENN DIAGRAMS
- FDP
- $x^2 - 16 = 0$ SOLVING QUADRATICS
- SURFACE AREA & VOLUME
- Term 3 – Foundation Tier
- LINEAR & QUADRATIC FUNCTIONS
- PYTHAGORAS THEOREM
- FDP
- PROBABILITY
- FINANCIAL AWARENESS

Y10 Mock Exams

- PROPORTION $x \propto y$
- COMPOUND UNITS & REAL LIFE GRAPHS
- SIMILARITY & CONGRUENCE
- ALGEBRAIC FRACTIONS
- CONDITIONAL PROBABILITY
- LINEAR & QUADRATIC FUNCTIONS
- CIRCLE THEOREMS
- SURFACE AREA & VOLUME
- Term 2 – Higher Tier
- Term 3 – Higher Tier
- STANDARD FORM $a \times 10^n$
- PROBABILITY
- $x^2 - 16 = 0$ SOLVING QUADRATICS
- RATIO
- $\sqrt{2}$ SURDS
- TRIGONOMETRIC RATIOS
- $n^2 + 3$ QUADRATIC SEQENCES
- $a^{-\frac{m}{n}}$ INDICES
- Term 1 – Higher Tier

- FORMULAE $A = \frac{1}{2}bh$
- ANGLES & BEARINGS
- RATIO 1:2
- SEQUENCES $2,\ 5,\ 8,\ 11,\ 14,\ldots$
- INDICES 2^4
- EQUATIONS $2x - 3 = -7$
- FACTORS, MULTIPLES, PRIMES
- Term 2 – Foundation Tier
- Term 1 – Foundation Tier

SCHOOL READY, WORK READY, LIFE READY