



ENTRANCE EXAMINATION 2023

MATHEMATICS PORTION – YEAR 9

(NON CALCULATOR)

NUMBERS

- Multiplication and division of negative numbers
- HCF and LCM
- Powers and roots
- Prime factors
- Order of operations - BODMAS
- Fractions and decimals - All four operations, word problems
- Percentages – Real life problems involving profit %, loss %, simple interest, Compound Interest, Original quantity
- Estimations
- Standard form
- Ratio and Proportion

ALGEBRA

- Expanding brackets and simplifying by collecting like terms
- Factorizing simple expressions by taking out the common factor.
- Changing the subject of a formula
- Solving linear equations
- Substituting into formulae
- Linear equation including word problems

GEOMETRY AND MEASURES

- Alternate and corresponding angles
- Geometric properties of quadrilaterals.
- The circle – Circumference and area
- Surface area and volume of prisms
- Transformations (Reflections, Translations and Enlargement)

STATISTICS

- Probability
- To find the mean , median , mode and range – Ungrouped data
- Drawing and interpreting Bar charts and Pie charts