

ENTRANCE EXAMINATION 2024 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
- > Solving linear simultaneous equations
- > Substituting into formulae
- > Graphs of linear functions

GEOMETRY AND MEASURES

- ➤ Angle Facts
- > Congruent triangles
- > Area and Perimeter
- ➤ 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 from a grouped data
 Drawing and interpreting Bar charts and Pie charts