

MTRP Syllabus for Class IX

- Geometry:
 - 1) Parallel lines.
 - 2) Triangles- Basic properties of triangles, congruency, similarity, mid-point theorems, Pythagoras Theorem, etc. Proofs and applications.
 - 3) Basic constructions.
 - 4) Properties of rectilinear figures- Square, rectangle, parallelogram, rhombus, trapezium, etc.
 - 5) Basic properties of circles.
 - 6) Mensuration: Area and volume of basic shapes.
- Arithmetic:
 - 1) Number system.
 - 2) Basic notion of divisibility.
 - 3) Ratio and proportion.
- Algebra:
 - 1) Expansion and simplifications- Eg: $(a+b)^2$, $(a+b)^3$, $(a+b+c)^2$, etc.
 - 2) Factorisation
 - 3) Solving linear and simultaneous equations.
 - 4) Indices.
 - 5) Inequalities- Basic results like square of a real number is non-negative, etc. and the AM-GM-HM inequality.
- Logical reasoning: self explanatory.