

# **Algebra Syllabus**

## **Basics of Algebra**

Variables, Constants, Expressions, Laws of Exponents and Radicals.

## **Equations and Inequalities**

Linear Equations, Quadratic Equations, Systems of Equations, Inequalities.

## **Functions and Graphs**

Domain, Range, Types of Functions, Graphing Linear and Quadratic Functions.

## **Polynomials**

Polynomial Theorems, Roots and Coefficients Relationship.

## **Progressions**

Arithmetic and Geometric Progressions, Applications.