**Algebra**

**Title:** Algebra – Course Overview  
**Duration:** 3 Months

**Course Description:**   
This course introduces core algebraic principles, building a strong foundation for higher-level mathematics and real-life problem-solving.

**Topics Covered:**

* Algebraic expressions and simplification techniques
* Linear and quadratic equations
* Polynomials: addition, subtraction, multiplication, and division
* Factoring and solving polynomial equations
* Algebraic identities (e.g., a² - b², (a ± b)²)
* Inequalities and absolute value equations
* Word problems and practical applications

**Learning Outcomes:**

* Develop the ability to manipulate algebraic symbols and expressions
* Solve real-world problems using algebraic models
* Prepare for advanced topics like calculus and statistics