

Grade 10 Algebra - Sierra Leone Curriculum

This curriculum covers fundamental algebraic concepts for Grade 10 students in Sierra Leone. Students will learn to solve linear equations, work with polynomials, and understand algebraic expressions in real-world contexts relevant to Sierra Leone.

Learning Objectives:

- Solve linear equations with one variable
- Simplify algebraic expressions
- Factor polynomials
- Solve word problems using algebra
- Apply algebraic concepts to Sierra Leone contexts

Content Overview:

Unit 1: Linear Equations

Students will learn to solve equations like $2x + 5 = 13$ and apply these skills to real-world problems such as calculating costs for local businesses in Freetown.

Unit 2: Polynomial Operations

This unit covers adding, subtracting, and multiplying polynomials. Students will practice with examples related to Sierra Leone's agricultural sector.

Unit 3: Factoring

Students learn to factor quadratic expressions and apply this to solving equations. Examples include calculating areas of traditional Sierra Leonean building plots.

Unit 4: Word Problems

Real-world applications include calculating distances between Sierra Leone cities, determining costs for local transportation, and solving problems related to Sierra Leone's economy.

Assessment:

Students will be assessed through: • Weekly quizzes on algebraic concepts • Problem-solving exercises with Sierra Leone contexts • End-of-unit tests • Practical applications in local scenarios