

PRIMARY AND SECONDARY SCHOOL MATHEMATICS

(1 - 6)

Primary 1

1. Number Recognition (0-100)
2. Counting and Writing Numbers
3. Place Value (Tens and Ones)
4. Addition and Subtraction
5. Basic Shapes
6. Measurement (Length, Weight, Capacity)
7. Time (Days, Months, Clock Reading)
8. Money
9. Patterns and Sequences
10. Data Collection and Pictographs

Primary 2

1. Numbers up to 1,000
2. Place Value
3. Addition and Subtraction of Larger Numbers
4. Introduction to Multiplication

5. Introduction to Division

6. Fractions ($\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$)

7. Measurement

8. Time and Calendar

9. Money Transactions

10. 2D and 3D Shapes

11. Simple Graphs

Primary 3

1. Numbers up to 10,000

2. Multiplication Tables

3. Division Facts

4. Fractions

5. Decimals (Introduction)

6. Perimeter

7. Area (Introduction)

8. Angles

9. Time

10. Data Handling

11. Problem Solving

Primary 4

1. Whole Numbers up to 100,000

2. Factors and Multiples

3. Prime and Composite Numbers

4. Fractions and Mixed Numbers

5. Decimals

6. Measurement

7. Perimeter and Area

8. Geometry

9. Symmetry

10. Statistics

11. Word Problems

Primary 5

1. Large Numbers and Place Value

2. Operations with Whole Numbers

3. Fractions, Decimals, and Percentages
4. Ratio and Proportion (Introduction)
5. Angles and Geometry
6. Area and Volume
7. Data Representation
8. Probability (Basic)
9. Time and Speed
10. Mathematical Reasoning

Primary 6

1. Revision of Number Operations
2. Fractions, Decimals, and Percentages
3. Ratio and Proportion
4. Algebraic Thinking (Introduction)
5. Geometry and Angles
6. Area, Perimeter, and Volume
7. Statistics and Probability
8. Graphs and Charts

9. Problem Solving Strategies

10. Examination Preparation

SECONDARY SCHOOL MATHEMATICS (JSS 1 - SSS 3)

Junior Secondary School (JSS)

JSS 1

1. Number Bases

2. Whole Numbers and Integers

3. Fractions and Decimals

4. Percentages

5. Ratio and Proportion

6. Simple Algebraic Expressions

7. Simple Equations

8. Geometry Basics

9. Angles

10. Construction

11. Statistics
12. Probability (Introduction)

JSS 2

1. Directed Numbers
2. Algebraic Expressions
3. Linear Equations
4. Simultaneous Equations
5. Sets
6. Geometry
7. Angles and Polygons
8. Bearing and Distances
9. Mensuration
10. Statistics
11. Probability
12. Graphs

JSS 3

1. Real Numbers

2. Variation
3. Indices and Logarithms (Introduction)
4. Algebraic Processes
5. Quadratic Equations (Introduction)
6. Geometry and Constructions
7. Trigonometry (Introduction)
8. Mensuration
9. Statistics and Probability
10. Coordinate Geometry
11. Revision for BECE

Senior Secondary School (SSS)

SSS 1

1. Number Bases
2. Indices and Logarithms
3. Surds
4. Algebraic Fractions

5. Linear and Quadratic Equations

6. Functions and Relations

7. Graphs of Functions

8. Coordinate Geometry

9. Trigonometric Ratios

10. Mensuration

11. Statistics

12. Probability

SSS 2

1. Variation

2. Sequence and Series

3. Matrices and Determinants

4. Trigonometric Functions

5. Circle Geometry

6. Longitude and Latitude

7. Bearings

8. Probability

9. Statistics

10. Differentiation (Introduction)

11. Financial Mathematics

12. Linear Programming

SSS 3

1. Revision of Algebra

2. Indices, Logarithms, and Surds

3. Trigonometry

4. Coordinate Geometry

5. Calculus (Basic Differentiation and Integration)

6. Matrices and Determinants

7. Statistics

8. Probability

9. Mensuration

10. Transformation Geometry

11. Financial Mathematics

12. WAEC/NECO/JAMB Examination Preparation

Learning Outcomes

By the end of the programme, learners should be able to:

- Perform accurate mathematical calculations.
- Apply mathematical concepts to real-life situations.
- Solve problems using logical reasoning.
- Interpret and analyze data effectively.
- Develop critical thinking and quantitative skills.
- Prepare confidently for national and international examinations.

Recommended Teaching Methods

- Interactive lessons
- Problem-solving activities
- Group discussions
- Mathematics games and puzzles
- Practical demonstrations
- ICT integration (GeoGebra, Scratch, spreadsheets, calculators)

- Continuous assessment through quizzes, assignments, and projects.