NATIONAL EXAMINATIONS COUNCIL (NECO)

BASIC EDUCATION CERTIFICATE EXAMINATION (BECE)

SYLLABUS

FOR CANDIDATES IN UPPER BASIC (JSS1-3) IN NIGERIA UNDER THE UNIVERSAL BASIC EDUCATION (UBE) PROGRAMME.

BECE

SECOND EDITION

MATHEMATICS

JSS 2
FIRST TERM

1. **Whole numbers**
   a. Whole numbers in standard form
   b. Decimal numbers in standard form
   c. Prime factors
   d. Prime factorization
   e. L.C.M
   f. H.C.F
   g. Squares and square roots
   h. Quantitative reasoning

2. **Fractions**
   a. Expressing fractions as ratios, decimals and percentages
   b. Quantitative reasoning on fractions, ratios and percentages.

3. **Translations in the homes and offices**
   a. Household arithmetic
   b. Commercial arithmetic

4. **Approximation.**
   a. Approximation of numbers:
      i. Decimals
      ii. Significant figures
   b. Quantitative reasoning.

5. **Multiplication and division of directed numbers**
   a. Squares and square roots tables
   b. Charts, records and schedules
   c. Multiplication and division of directed numbers

SECOND TERM

1. **Algebraic Expressions**
   a. Expansion of algebraic expressions
   b. Factorization of simple algebraic expressions
   c. Expansion and factorization of quadratic expressions
   d. Quantitative reasoning
   e. Algebraic expressions of Fractions with monomial denominators
   f. Word problems leading to simple algebraic expressions

2. **Simple equations**
   a. Problems on simple equations
3. **Linear inequalities**
   a. Linear inequality in one variable.
   b. Graphical representations of solution of linear inequalities in one variable
   c. Word problem
4. **Graphs**
   a. Plotting point on the Cartesian plane
   b. Graph of linear equation in two variables
   c. Linear graphs from real life situations
   d. Quantitative reasoning
5. **Plane figures/shape**
   a. Properties of parallelogram rhombus and kite
   b. Scale drawing

THIIRD TERM

1. **Angles**
   a. Sum of angles of a polygram
   b. Angles of elevation and depression
2. **Bearing**
   a. Bearing
3. **Construction**
   a. Constructing triangles
   b. Bisecting angles
4. **Data presentation**
   a. Ordered presentation of data
   b. Frequency table
   c. Pie charts
   d. Charts, records and schedules
5. **Probability**
   a. Occurrence of chance events in everyday life
   b. Probability of chart events