

MATHEMATICS

JUNIOR SECONDARY SCHOOL (JSS 2)

FIRST TERM

WEEK	TOPICS/CONTENTS
1.	REVIEW OF JSS 1 EXAMINATION QUESTIONS AND RELEVANT TOPICS FOR THE NEW CLASS (BASIC OPERATION OF INTERGERS)
2.	WHOLE NUMBERS I. Whole numbers in standard forms II. Decimal numbers in standard forms III. Prime factors
3.	WHOLE NUMBERS COUNTINUED I. Lowest Common Multiple (LCM) II. Highest Common Factor (HCF) III. Square and Square Roots IV. Quantitative Reasoning
4.	FRACTIONS – TRANSACTIONS IN THE HOMES AND OFFICES I. Expressing Fractions as Ratios, Decimals and Percentages. II. Quantitative Reasoning on Fractions, Ratio and Percentages.

III. Commercial Arithmetic

5. APPROXIMATION

I. Approximation of Numbers to –

- Decimal. Places
- Significant Figures
- Whole Numbers
- Nearest Tens, Hundreds, Thousands, Tenths, Hundredths and Thousandth

II. Quantitative reasoning

6. MULTIPLICATION AND DIVISION OF DIRECTED AND NON DIRECTED NUMBERS

I. Definition and Examples of Directed and Non Directed Numbers Square and Square Roots

Tables

II. Multiplication and Division of Directed and Non Directed Numbers

7. REVIEW OF FIRST HALF TERM'S LESSONS AND PERIODIC TEST

8. ALGEBRAIC EXPRESSIONS

I. Definition of algebraic expressions with examples

II. Expressions of algebraic expressions

III. Factorization of simple algebraic expressions

9. ALGEBRAIC EXPRESSIONS COUNTINUED

I. Expansion and Factorization of quadratic expressions.

II. Definition of algebraic fractions

III. Algebraic fractions with whole number denominator (Addition and Subtraction)

IV. Quantitative Reasoning

10. ALGEBRAIC EXPRESSIONS COUNTINUED

Word Problems leading to Simple Algebraic Fractions

11. REVISION OF FIRST TERM'S LESSONS AND FIRST TERM EXAMINATION

12. – 13. FIRST TERM'S EXAMINATION

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SECOND TERM

WEEK	TOPICS/CONTENTS
1.	REVIEW OF FIRST TERM'S WORK EMPHASIS ON ALGEBRAIC EXPRESSIONS, SOLVING OF QUADRATIC EQUATIONS AND TRANSACTIONS AT HOME AND OFFICES
2.	SIMPLE EQUATIONS I. Algebraic Equation II. Differences between Algebraic Expressions and Algebraic Equation III. Problems on Simple or Algebraic Equations
3.	LINEAR INEQUALITIES I. Definition of Linear Inequalities II. Word Problems leading to Simple Inequalities in One Variable.
4.	LINEAR INEQUALITIES COUNTINUED I. Graphical Representation II. Graphs of Cartesian Plane – The Axis
5.	GRAPHS I. Graphs of linear equations in two variables II. Plotting of linear graphs in two variable from real life situations.

III. Quantitative reasoning problems on graphs

6. PLANE FIGURES/SHAPES

- I. identify plane shapes in their environment
- II. State the Properties of Plane Shapes e.g. Square, Rectangle, Parallelogram, rhombus and Kites.

7. REVIEW OF THE FIRST HALF TERM'S WORK AND PERIODIC TEST

8. SCALE DRAWING OF LENGTH AND DISTANCES

- I. Meaning of scale drawing and state the purpose of drawing using scale.
- II. Practically demonstrate real measurement and represent the same in scale on plain paper or cardboard paper.

9. QUANTITATIVE APTITUDE ON PLANE SHAPES AND SCALE DRAWING

- I. Define quantitative aptitude
- II. Reasons for Studying Quantitative Aptitude
- III. Solve PROBLEMS on Quantitative Aptitude related to Plane Shapes/Figures and Scale Drawing

10. REVISION OF THE SECOND HALF TERM'S WORK AND PERIODIC TEST

11. REVISION AND EXAMINATION

12. – 13. EXAMINATION AND VACATION

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THIRD TERM

WEEK	TOPICS/CONTENTS
1.	REVISION OF SECOND TERM'S EXAMINATION Representation of Real Life situations on a Graph and the reason (s)
2.	ANGLES AND POLYGON I. Define Angles II. Construct More Angles e. g 75, 105, 120, 135, etc. III. Define Polygon with Examples IV. Generalization the Sum of Interior Angles of Regular Polygon is given by $(2n - 4)$ Right Angles of Convex Polygon V. Solve Problems on Interior of Convex Polygon
3.	ANGLES OF ELEVATION AND DEPRESSION I. Define Angle of Elevation with Practical Illustration. II. Problem Solving by Measurement (not calculation) of Angles of Elevation. III. Definition of Depression and Angle of Depression with Practical Examples IV. Use Angles of Elevation and Depression in calculating Distances and Heights using Scale Drawing V. Solve problems on Quantitative Problems on Quantitative Aptitude related Angles

4. BEARING AND DISTANCES

- I. Identify the Cardinal Points
- II. Locate the Position of Objects
- III. Find Distances and Bearing between Objects using Scale Drawing
- IV. Construct Triangle on: 2 Sides and a Secluded Angle, 2 Angles and a Side between them, all the 3 Sides
- V. Bisect any given Angles

5. STATISTICS – DATA PRESENTATION

- I. Collect Data from Different Sources e.g. Home, School, Church, Market etc.
- II. Present Data in Ordered Forms and Frequency Table
- III. Plot Pie Chart and Read Information from the Chart

6. STATISTICS COUNTINUED

- I. Collect data from local sources
- II. Tabulate data and present the same in graphical form (Pie Chart)
- III. Interpret the data from the chart and state their usefulness in everyday life

7. REVIEW OF FIRST HALF TERM'S WORK AND PERIODIC TEST

8. PROBABILITY

- I. Define Probability as Chances/Events
- II. State the Importance and Usefulness of Probability in Daily Activities
- III. Give Numerous and Natural Examples of Chances/Events
- IV. Use Ludo and Tossing of Coins to Generate Chances/Events

9. PROBABILITY COUNTINUED

- I. Solve simple problems on probabilities
- II. Calculate the probability of events from the result of experiments.
- III. Analyze statistical data with the knowledge of productions and probability.

10. REVIEW OF THIRD TERM'S WORK AND PERIODIC TEST

11. REVISION AND EXAMINATION

12. – 13. EXAMINATION AND VACATION