

MATHEMATICS

JUNIOR SECONDARY SCHOOL (JSS 3)

FIRST TERM

WEEK	TOPICS/CONTENTS
1.	REVIEW OF JSS 2 WORK Questions and Answers on Identified Work Area
2.	WHOLE NUMBERS I I. Binary Number System II. Using Computer to do Simple Mathematical Calculations III. Translation of word problems into numerical expressions.
3.	WHOLE NUMBERS II I. Expressions Involving Brackets and Fractions II. Direct and inverse proportion III. Application of Direct and Inverse Proportions. IV. Compound Interest
4.	ADDITION AND SUBTRACTION OF NUMBERS IN BASE 2 NUMERALS I. Addition of Two or Three 3 – Digit Binary Numbers II. Subtraction of Two or Three 3 – Digit Binary Numbers

5. MULTIPLICATION AND DIVISION OF NUMBERS IN BASE 2 NUMERALS

- I. Multiplication of Two 2 – Digit Binary Numbers
- II. Division of Two to 3 – Digit Binary Numbers

6. RATIONAL AND NON – RATIONAL NUMBERS

Identify Rational and Non – Rational Numbers

VARIATIONS

Solve Variation Problems on Direct, INDIRECT, JOINT and Partial

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

8. FACTORIZATION

- I. Factorization of Expression of the Form
 - $ax + ay$
 - $3m + pq + 3p + mp$
 - $a^2 - b^2$
 - $a^2 - 2ab - b^2$
- II. Word Problems Involving Factorization

9. SIMPLE EQUATIONS INVOLVING FRACTIONS

- I. Simple Equations Involving Fractions
- II. Word Problems leading to Simple Equations Involving Fractions

10. CHANGE OF SUBJECT OF FORMULAE

Involving Addition, Multiplication and Roots.

11. REVISION OF 2ND HALF TERM'S LESSON AND PERIODIC TEST

12. FIRST TERM EXAMINATION

13. EXAMINATION/VACATION

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SECOND TERM

WEEK	TOPICS/CONTENTS
1.	REVISION OF FIRST TERM'S WORK Questions and Answers on Identified Different Areas of from first Term's Exams.
2.	SIMULTANEOUS LINEAR EQUATIONS (I) – IN ONE OR TWO VARIABLES USING I. Elimination Method II. Subtraction Method III. Graphical Method IV. Compilation of Table of Values
3.	SIMULTANEOUS LINEAR EQUATIONS (II) I. More Exercises on Simultaneous Linear Equations using Graphical Method II. Application of Simultaneous Linear Equation to Life Situation using Problem Solving
4.	GEOMETRY I – SIMILAR SHAPES I. Similar Shapes – Identification of Plane Shapes II. Enlargements and Scale Factor – Enlarge Figures using Scale Factors
5.	GEOMETRY II I. Calculate Lengths, Areas and Volume of Similar Figures

- II. Solve Problems on quantitative reasoning involving similar shapes.

6. AREA OF PLANE FIGURES I

- I. Area of triangles
- II. Area of parallelogram
- III. Area of trapezium
- IV. Area of circles

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

8. AREA OF PLANE FIGURES II

- I. Area of Sectors
- II. Word Problems Involving Areas of Plane Figures
- III. Quantitative Aptitude Problems on Areas of Plane Figures

9. TRIGONOMETRY

- I. The Sine, Cosine and Tangent of an Acute Angle
- II. Applications of Trigonometry Ratios to Solve Problems on Angles and Sides of a Right Angled triangle

10. ANGLES OF ELEVATION AND DEPRESSION

Apply trigonometric ratios to find angle of elevation and depression

STUDY OF MEASUREMENT USING CLINOMETERS

Use clinometers to demonstrate and estimate or calculate distances.

11. REVISION AND EXAMINATION

12. – 13. EXAMINATION AND VACATION

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THIRD TERM

WEEK	TOPICS/CONTENTS
1.	REVISION OF SECOND TERM'S WORK AND EXAMINATION PAPERS
2.	CONSTRUCTION I. Construction of Angle 45 Degree II. Construction of Angle 30 Degree III. Copying given Angles IV. Construction of Simple Plane Shapes
3.	MEASURE OF CENTRAL TENDENCY I. Revision of previous work on mean, median and mode II. Calculate the Median of any given Data III. Calculate the Mode of any given Data IV. Calculate the Mean of any given Data V. Calculate the range of any given Data.
4.	APPLICATION OF MEASURES OF CENTRAL TENDENCY TO ANALYZE ANY GIVEN INFORMATION

5. DATA PRESENTATION – PIE CHARTS

6. REVISION OF JSS 3 WORK

7. – 8. MOCK EXAMINATION

9. JSSC EXAMINATION