

# MATHEMATICS

## FIRST TERM JSS 3

WEEK	TOPIC / CONTENT	ACTIVITIES
1	<b>BINARY NUMBERS</b> i. Addition and subtraction of binary numbers ii. Multiplication and division of binary numbers iii. Solving Quantitative Reasoning problems on binary numbers.	<b>Students:</b> i. Add binary numbers ii. Subtract binary numbers iii. Multiply binary numbers iv. Divide given binary numbers v. solve Quantitative Reasoning problems  <b>Instructional Resources:</b> Flash cards
2	<b>BINARY NUMBERS CONT.</b> i. Conversion from base ten to binary ii. Conversion from binary to other bases. iii. Applying binary numbers as two way classification system using punch card. iv. Using computer to do simple mathematical calculations.	<b>Students</b> a. change numbers from base 10 to base 2. b. change base 2 numbers to base 10 or any required base.  <b>Instructional Resources:</b> a. Flash cards showing a typical conversion from base 10 to base 2. b. Punch cards.
3	<b>DIRECT AND INVERSE PROPORTION</b> i. Direct proportion ii. Indirect proportion iii. Apply direct and inverse proportions to practical problems.	<b>STUDENTS:</b> i. Solve problems on direct and inverse proportion including practical problems.  <b>Instructional Resources:</b> Direct and inverse proportions chart
4	<b>RATIONAL AND NON-RATIONAL NUMBERS</b> i. Identifying rational and non-rational numbers. ii. Determining the approximate value of some non-rational numbers. iii. Determining the approximate value of $\pi$ . iv. Finding reciprocals.	<b>Students:</b> a. Identify rational numbers amongst a set of given numbers. b. Determine practically the approximate value of some non-rational numbers.  <b>Instructional Resources:</b> Chart showing some non-rational numbers.
5	<b>PLANE FIGURES</b> Problems in measurement involving: i. Area of triangles ii. Area of parallelograms iii. Area of trapezium iv. Area of circles and sectors v. Word problems involving area.	<b>Students:</b> a. Derive formula for area of triangles. b. Use formula to find the area of parallelograms, trapezia and circles. c. Solve Quantitative problems on areas.  <b>Instructional Resources:</b> Models of indicated shapes (Triangles, Circles etc.)
6	<b>FACTORIZATION OR ALGEBRAIC EXPRESSION</b> Factorization of expressions of the form: i. $ax+ay$ ii. $3m+pq+3p+mq$ iii. $a^2 - b^2$ iv. $a^2 - 2ab + b^2$ v. Word problems involving factorization.	<b>Students:</b> a. Factorize simple algebraic expressions b. Use the quadratic equation box to factorize quadratic expression.  <b>Instructional Resources:</b> a. Quadratic equation box b. Flash cards of problems
7	<b>EQUATIONS INVOLVING FRACTIONS</b>	<b>Students:</b>

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## **Table of Contents Jss1 Marhematics Scheme Of Work 3rd Term**

1. Understanding the eBook Jss1 Marhematics Scheme Of Work 3rd Term
  - The Rise of Digital Reading Jss1 Marhematics Scheme Of Work 3rd Term
  - Advantages of eBooks Over Traditional Books
2. Identifying Jss1 Marhematics Scheme Of Work 3rd Term
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Jss1 Marhematics Scheme Of Work 3rd Term
  - User-Friendly Interface
4. Exploring eBook Recommendations from Jss1 Marhematics Scheme Of Work 3rd Term
  - Personalized Recommendations
  - Jss1 Marhematics Scheme Of Work 3rd Term User Reviews and Ratings
  - Jss1 Marhematics Scheme Of Work 3rd Term and Bestseller Lists
5. Accessing Jss1 Marhematics Scheme Of Work 3rd Term Free and Paid eBooks
  - Jss1 Marhematics Scheme Of Work 3rd Term Public Domain eBooks

- Jss1 Marhematics Scheme Of Work 3rd Term eBook Subscription Services
- Jss1 Marhematics Scheme Of Work 3rd Term Budget-Friendly Options
- 6. Navigating Jss1 Marhematics Scheme Of Work 3rd Term eBook Formats
  - ePub, PDF, MOBI, and More
  - Jss1 Marhematics Scheme Of Work 3rd Term Compatibility with Devices
  - Jss1 Marhematics Scheme Of Work 3rd Term Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Jss1 Marhematics Scheme Of Work 3rd Term
  - Highlighting and Note-Taking Jss1 Marhematics Scheme Of Work 3rd Term
  - Interactive Elements Jss1 Marhematics Scheme Of Work 3rd Term
- 8. Staying Engaged with Jss1 Marhematics Scheme Of Work 3rd Term
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Jss1 Marhematics Scheme Of Work 3rd Term
- 9. Balancing eBooks and Physical Books Jss1 Marhematics Scheme Of Work 3rd Term
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Jss1 Marhematics Scheme Of Work 3rd Term
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Jss1 Marhematics Scheme Of Work 3rd Term
  - Setting Reading Goals Jss1 Marhematics Scheme Of Work 3rd Term
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Jss1 Marhematics Scheme Of Work 3rd Term
  - Fact-Checking eBook Content of Jss1 Marhematics Scheme Of Work 3rd Term
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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