

MATHEMATICS

FIRST TERM JSS 3

| WEEK | TOPIC / CONTENT | ACTIVITIES |
|------|---|---|
| 1 | BINARY NUMBERS i. Addition and subtraction of binary numbers ii. Multiplication and division of binary numbers iii. Solving Quantitative Reasoning problems on binary numbers. | Students: i. Add binary numbers ii. Subtract binary numbers iii. Multiply binary numbers iv. Divide given binary numbers v. solve Quantitative Reasoning problems Instructional Resources: Flash cards |
| 2 | BINARY NUMBERS CONT. 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. | Students a. change numbers from base 10 to base 2. b. change base 2 numbers to base 10 or any required base. Instructional Resources: a. Flash cards showing a typical conversion from base 10 to base 2. b. Punch cards. |
| 3 | DIRECT AND INVERSE PROPORTION i. Direct proportion ii. Indirect proportion iii. Apply direct and inverse proportions to practical problems. | STUDENTS: i. Solve problems on direct and inverse proportion including practical problems. Instructional Resources: Direct and inverse proportions chart |
| 4 | RATIONAL AND NON-RATIONAL NUMBERS i. Identifying rational and non-rational numbers. ii. Determining the approximate value of some non-rational numbers. iii. Determining the approximate value of π . iv. Finding reciprocals. | Students: a. Identify rational numbers amongst a set of given numbers. b. Determine practically the approximate value of some non-rational numbers. Instructional Resources: Chart showing some non-rational numbers. |
| 5 | PLANE FIGURES 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. | Students: 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. Instructional Resources: Models of indicated shapes (Triangles, Circles etc.) |
| 6 | FACTORIZATION OR ALGEBRAIC EXPRESSION 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. | Students: a. Factorize simple algebraic expressions b. Use the quadratic equation box to factorize quadratic expression. Instructional Resources: a. Quadratic equation box b. Flash cards of problems |
| 7 | EQUATIONS INVOLVING FRACTIONS | Students: |

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