

# MATHEMATICS

## FIRST TERM JSS 3

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

# Jss Scheme Of Work For Third Term

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web aug 20 2022 the 1kd ftv motor includes 2 balancer shafts the crankshaft with counterweights is responsible for the movement of the balancers the moment is transmitted using a gear drive an aluminum alloy was also used to produce the cylinder head the cylinder head includes two camshafts 4 valves are provided for each cylinder

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web feb 5 2009 the 1kd ftv a 3 0l 2982cc straight 4 common rail variable nozzle turbo variable geometry turbocharger coupled with a 32 bit ecu and multi port injection system diesel engine turbo diesel engine with an intercooler it has 16 valves and a dohc double overhead camshaft bore is 96 mm and stroke is 103 mm

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the related 2kd ftv key features of the 1kd ftv included its cast iron block aluminium alloy cylinder head variable nozzle vane type turbocharger intercooler double overhead camshafts four valves per cylinder and

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