

CLASS: SS 3
SUBJECT: GENERAL MATHEMATICS

Study the following topics carefully.

1. Surds
 - Rational and irrational numbers leading to surds
 - Rules of surds
 - Addition and subtraction of surds
 - Multiplication and division of surds
 - Conjugates of binomial surds
 - Application of surds in solving triangles
 - Evaluation of expressions involving surds
2. Logarithms
 - Indices
 - Logarithms of numbers greater than 1
 - Logarithms of numbers less than 1
 - Theory of logarithms
 - Laws of logarithms

Answer the following questions.

1. Use logarithm table to evaluate:

- i. $\frac{\left(\frac{0.00967}{0.07812}\right)^{\frac{1}{2}}}{\sqrt[6]{0.000907}}$
- ii. $\sqrt[6]{0.000907}$
- iii. $\sqrt[4]{287.6^2 - 120.6^2}$

2. Find the unknown in the following equations:

- i. $\log_x 216 = 3$
- ii. $\log_{10} 0.001 = x$
- iii. $y^3 = \log_{10} 100000000$
- iv. $k^2 = \log_2 512$

3. Use logarithm tables to evaluate the following:

$$\text{If } P = \frac{m \sqrt{2ghT}}{\sqrt{0.03D}}$$

where $g = 9.8$, $D = 180$, $m = 3$, $h = 0.834$, $T = 0.265$, find P .

4.
 - i. Given that $\log_{10} 5 = 0.699$ and $\log_{10} 3 = 0.477$, find $\log_{10} 45$ without using mathematical tables.
 - ii. Hence, solve $x^{0.8265} = 45$.

5.
 - i. Simplify without using Mathematical tables, $\sqrt{\frac{P}{Q}}$

where $P = 3.6 \times 10^{-3}$ and $Q = 2.25 \times 10^6$, leaving your answer in standard form.

- ii. Given that $\frac{x}{y} = \frac{2}{7}$, evaluate $\frac{7x+y}{x-\frac{1}{7}y}$.
- iii. If $x = \frac{2a+3}{3a-2}$, express $\frac{x-1}{2x+1}$ in terms of a .

SUBJECT: FURTHER MATHEMATICS

Study the following topics carefully

1. Inequalities in one and two variables
 - Quadratic Inequality
 - Linear inequalities in two variables
 - Rational inequality

2. Matrices and determinant
 - Equality of matrices
 - Addition and subtraction of matrices
 - Multiplication of matrices – scalar multiplication, matrix multiplication.
 - Transposition of matrices
 - Determination of 2×2 and 3×3 matrices
 - Adjoint of a matrix
 - Solving systems of two and three unknowns using determinant and matrix methods.

Answer the following questions.

1. A bag contains 6 white balls and 4 black balls. Three balls are drawn from the bag at random, one after the other without replacement. Find the probability that:
 - (i) there are 2 white and 1 black balls.
 - (ii) there is at least 1 white ball.

2. Solve the inequality $\frac{3x-4}{6x^2+7x+1} > 0$.

3. If $\begin{bmatrix} 2 & -3 \\ 5 & 6 \end{bmatrix} \begin{bmatrix} 3 & 2 \\ 5 & 0 \end{bmatrix} = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$, find the values of a, b, c , and d .

SUBJECT: ENGLISH LANGUAGE

1. As the out-going library prefect, write a letter to your friend in another school telling him or her your experience and how the post has impacted your life positively.
 2. You are the chief speaker in a debate competition titled "The use of social media has done more harm than good to the present generation" write your speech for or against the motion.
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SUBJECT: CHEMISTRY

Read and study carefully the following topics:

1. Organic chemistry under the following topics
 - i. characteristic features of organic compounds
 - ii. Terms used in organic chemistry.
 - iii. Preparation, properties and uses of
 - a. alkanes
 - ii. alkenes
 - iii. alkynes
 - iv. alcohols.
 2. Answer the objective questions on SSCE 2017 – 2019.
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SUBJECT: PHYSICS

READ Atomic Models, Concentrate on the following models

1. Thompson model
2. Rutherford model
3. Neils Rolu model
4. Electron – cloud model

Note: Write a short note on the limitations of each model and conclusions of each model. Characteristic and compare the atomic models.

SUBJECT: YORUBA

1. Daruko asa iran-ara-eni-lowo marun-un
2. Ko akanlo ede marun-un pelu itumo ijinle won.

SUBJECT: FISHERY

- I. Fish diseases
 - ii. Fish breeding
 - iii. Fish processing and preservation.
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SUBJECT: AGRIC SCIENCE

Study the following topics

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|----------------------|-------------------|-------------|
| i. Animal management | ii. Poultry birds | iii. Rabbit |
| iv. Cattle | v. Sheep | vi. Goat |
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- 2a. Animal improvement
 - b. Plant improvement
 3. Farm records and accounts
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SUBJECT: ECONOMICS

Study the following topics and practice the questions that follow each:

1. Elementary treatment of fiscal policy.
 2. Types of financial institutions and their functions.
 3. Money: Demand for and supply of money, inflation and deflation.
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SUBJECT: BIOLOGY

Study the following topics:

- i. Regulation of internal environment.
- ii. Normal coordination.
- iii. Nervous coordination
- iv. Sense organs.

SUBJECT: C. R. K.

1. Read “Justification by faith” and mention the fruits of justification and the impacts of justification in the life of our present day Christian.
 2. Read “Law and Grace” and show how Paul used the case of Abraham to prove that grace, rather than law, brings salvation.
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SUBJECT: TECHNICAL DRAWING

With the aid of relevant textbooks and WAEC/NECO SSCE past questions study vigorously the following topics;

1. Development of Geometrical solids
 - True shapes
 - Intersection of solids
 - True lengths and surface development
 2. Pictorial Drawing
 - Dimensioning techniques
 - Isometric drawing
 - Oblique drawing
 - Perspective drawing
 - Auxiliary views of geometrical solids
 - Computer-aided drawing (pictorial and auxiliary views)
 3. Building and Engineering Design and drawing
 - Orthographic projection
 - Building design and working drawing
 - Details of parts of a building
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SUBJECT: CIVIC EDUCATION

Study and answer questions of the following topics using WAEC past questions from 2015 - 2019 as a case study.

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|---------------------|----------------|-------------|--------------|
| 1. political apathy | 2. Cultism | 3. HIV/AIDS | 4. Our value |
| 5. Trafficking | 6. Drug abuse. | | |
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SUBJECT: ELECTRONICS

With the aid of relevant ebooks and WAEC/NECO SSCE past questions, study vigorously the following topics:

1. Semiconductor Devices
 - Transistors
 - Integrated Circuits (IC) and microprocessors
 2. Power supply
 - Power supply unit: rectification, regulation.
 3. Introduction to Communication System
 - Radio transmission and reception
 - Television receiver
 4. Digital Basics
 - Number system (binary, denary, hexadecimal)
 - Logic gates (AND, OR, NOT, NAND, NOR, XOR, XAND)
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SUBJECT: GOVERNMENT

Study the following topics and apply your studies to solve past WAEC questions ranging from 210 – 2019.

1. Military Intervention/ regime in Nigeria (1963 – 1998)
 - Military regimes
 - Cause for military intervention
 - How to curb military intervention in Nigeria
 2. Major political crises in Nigeria starting from 1953.
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SUBJECT: HISTORY

1. Examine the roles which geography had played to influence History of ethnic groups in Ghana before 1800.
 2. What five features made Benin Famous as a centre of ancient civilization?
Study the following topics and obtain comprehensive notes from each topic.
 3. ECOWAS
 4. Trans-Atlantic slave trade
 5. Ghana History
 6. Sierra Leone.
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SUBJECT: FINANCIAL ACCOUNTING

Read the following topics at home:

1. Manufacturing, trading, profit and loss accounts.
2. Partnership accounts
3. Partnership admission accounts
4. Partnership appropriation accounts
5. Income and expenditure accounts

SUBJECT: COMMERCE

Read the following topics at home:

1. Trade associations and other related enterprises
2. Public enterprises
3. Transportation
4. Communications
5. Advertising

SUBJECT: LITERATURE

Read and study the following texts/poems

1. Anvil and the Hammer by Kofi Awoonor
2. Vanity by Burago Diop
3. Birches by Robert hee Frost

SUBJECT: COMPUTER STUDIES

Read and study the following texts/poems

1. Networking
2. Network Topology
3. Cables And Connectors

