



## SECOND TERM SCHEMES OF WORK AND HOLIDAY ASSIGNMENTS

**CLASS: S.S 3**

### GENERAL MATHEMATICS

WEEKS	TOPICS/CONTENTS
1	INTEGRATION: (a) The reverse of differentiation (b) Indefinite integral (c) Theorems used in integration (d) Solving differential equation
2	INTEGRATION: (a) Definite Integral (b) Integration by substitution (c) Powers of Sine and Cosine (d) Integration by parts (e) Integration by trigonometric substitution (f) Integration by partial fractions
3	LATITUDE AND LONGITUDE: (a) Angles of latitude and longitude (b) Distance along the great circle (c) radius along the parallel of latitude (d) The parallel of latitude (e) Solving problems involving latitude and longitude

### ASSIGNMENTS:

1. By road, Kaduna and Jos are 1312km apart. Their positions are  $(4.6^{\circ}\text{N}, 7.5^{\circ}\text{E})$  and  $(13.0^{\circ}\text{N}, 7.5^{\circ}\text{E})$  respectively. (a) Calculate their great circle distance apart.  
(b) Explain why there is a difference between your result and the road distance.
2. If a curve passes through the point  $(-1, 4)$  and its gradient along the point is  $2x-1$ ,

find the coordinate of the point on the curve at which the gradient is -7

3. Evaluate the following integrals

(a)  $\int \frac{3}{4x+1} dx$  (b)  $\int \frac{x+5}{x^2+2x+3} dx$  (c)  $\int x \cos 2x^2 dx$

#### FURTHER MATHEMATICS

WEEKS	TOPICS/CONTENTS
1.	PARTIAL FRACTIONS: (a) Splitting fractions (b) Types of partial fractions
2.	PARTIAL FRACTIONS: Solving problems in respect to its types
3.	DYNAMICS: (a) Newton's laws of motion (b) Motion along inclined plane

#### ASSIGNMENTS:

1. Resolve the following into partial fractions

(a)  $\frac{2x^3+1}{x(x^2-1)}$  (b)  $\frac{(x-1)(x+1)}{(x+2)(x^2-3x+1)}$  (c)  $\frac{4x-1}{x(x+3)}$  (d)  $\frac{x^2+3x+1}{x^2(x+3)^2}$

2. A body of mass 20kg is placed in a lift. Find the reaction between the floor of the lift and the body when the lift moves downward with retardation of  $2.5 \text{ms}^{-2}$

(Take  $g = 10 \text{ms}^{-2}$ )

3. A force of 30N acts at an angle of  $60^\circ$  on a body of mass 6kg initially at rest on smooth horizontal plane. Find the distance covered in 10 secs.

#### HOME MANAGEMENT

WEEKS	TOPICS/CONTENTS
1	Family and Functions of members
2.	Family/Family cycle, Family relationship.
3.	Time management: Advantages and disadvantages of time management.

#### ASSIGNMENTS:

1. Mention three functions of the family.

2. State five advantages of time management.

### ECONOMICS

WEEKS	TOPICS/CONTENTS
1.	Economic growth and Economic development
2.	International Economic Organisations E.g IMF, IBRD, ADA.
3.	Economic planning: Types of planning, Nigeria planning period.

#### ASSIGNMENTS:

1. What is International Economic Organisation?
2. State the functions IMF and IBRD.

### PHYSICS

WEEKS	TOPICS/CONTENTS
1	BASIC ELECTRONICS: semi conductors, modes of conduction in semiconductors, types of semiconductors
2	ROCKETS AND SATELLITES: components and uses of satellite. Component and uses of rockets.
3	CONDUCTION THROUGH LIQUIDS AND GASES: conduction through liquids, electrolysis, laws and application of electrolysis, hot cathode.

#### ASSIGNMENTS:

##### NEW SCHOOL PHYSICS

BOOK 3. CHAPTER 5. Pages 416. EXERCISE 5 Nos 1-6. 12-13.

### FINANCIAL ACCOUNTING

WEEKS	TOPICS/CONTENTS
1	Market Tools of Regulation: 1. Meaning 2. Methods
2	Capital Market: 1. Definition 2. importance 3. Effects on primary market
3	Contract Account: 1. Nature

	<ol style="list-style-type: none"> <li>2. Contractor day books sales and purchases</li> <li>3. Problems</li> </ol>
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#### ASSIGNMENTS:

1. Explain four Market tools of regulation
2. Distinguish between Money market and capital market
3. Outline the procedures for a contract agreement

#### CIVIC EDUCATION

WEEKS	TOPICS/CONTENTS
1	Importance of civic education: Meaning of civic education. Reasons why civic education is a core compulsory subject.
2	Cultism: Meaning of cultism. Activities of secret cult group. Consequences of cultism. Reasons for establishing and joining cult.
3	Popular participation: Meaning of popular participation, Types of popular participation and need for popular participation.

#### ASSIGNMENTS:

1. Explain the meaning of civic education.
2. State five reasons why civic education is a core and compulsory subject.
3. Define cultism?
4. State three reasons for joining cult.

#### TECHNICAL DRAWING

WEEKS	TOPICS/CONTENTS
1	BUILDING PLANS: Practical
2	PARTS OF BUILDINGS: Windows and roofs
3	SIMPLE REINFORCEMENT FOR COLUMNS AND BEAMS: foundation of a building

#### ASSIGNMENTS:

1. Draw a building plan for a 4- bedroom flat
2. What are the functions of windows?
3. List four types of windows and walls.

## GEOGRAPHY

WEEKS	TOPICS/CONTENTS
1	Satellite Remote sensing: (i) Meaning of remote sensing. (ii) Application of remote sensing. (iii) Relationship between geographical information system.
2.	Geographic information system: (i) Application of G.I.S(II) Common pitfalls of G.I.S (III) Problems of G.I.S
3.	Map reading: (i) Scale conversion (ii) Bearing and Direction (iii) Convectional symbols.

### ASSIGNMENTS:

- Briefly explain the following concepts,  
(i) Remote sensing. (ii) Satellite.
- List and explain the three major application of remote sensing.
- List ten convectional symbols.

## ENGLISH LANGUAGE

WEEKS	TOPICS/CONTENTS
1	SPEECH INFORMAL LETTER CONTEXTUAL MEANING / K / and / g /-Revision and identification in WASSCE English Past questions Booklet. Revision and classwork Explanation and classwork with WASSCE Booklet
2	SPEECH COMPREHENSION Inflectional markers: Plural marker Inflectional markers: 'ed' past tense marker Test of contextual meaning using WASSCE booklet
3	INFORMAL LETTER ARTICLE WRITING Writer's address, date and salutation Body and complimentary close Classwork on informal letter. Publication in a national newspaper

Answer question 2, English Language 1, NOSEC for SS 3, page 264. (450 words long)

#### LITERATURE IN ENGLISH

WEEKS	TOPICS/CONTENTS
1	Non African Drama: LOOK BACK IN ANGER by John Osborne: Class reading of text
2	Non African Drama: LOOK BACK IN ANGER by John Osborne: Class reading of text
3	Non African Drama: LOOK BACK IN ANGER by John Osborne: Plot analysis setting Major events and significance

Comment on Jimmy's anger in "Look Back in Anger". (Give at least six points).

#### ANIMAL HUSBANDRY

WEEKS	TOPICS/CONTENTS
1	Importance and Classification of Farm Animals 1. Importance of farm animals 2. Classification of farm animals based on: a. habitat b. nutrition c. type of stomach d. production methods: macro or micro
2	Livestock Reproduction 1. Reproductive organs in male and female farm animals and their functions.
3	Livestock Management 1. Livestock management systems 2. Livestock management practices

#### ASSIGNMENTS:

1. List **six** importance of farm animals.
2. Classify farm animals based on:
  - a. Habitat
  - a. Nutrition

- b. Types of stomach
- c. Production methods
- 3. Mention **five** male and **five** female reproductive organs and their functions.
- 4. State **four** advantages and **three** disadvantages of the following livestock management systems:
  - [i] Extensive system
  - [ii] Intensive system
- 5. Define the following management practices:
  - i. Flushing
  - ii. Steaming up
  - iii. Weaning
  - iv. Castration
  - v. Tail-docking
  - vi. Debeaking

## AGRICULTURAL SCIENCE

WEEKS	TOPICS/CONTENTS
1	Agricultural Extension: <ul style="list-style-type: none"> <li>a. Agricultural extension as a teaching and learning process</li> <li>b. Agricultural extension programmes</li> </ul>
2	Agricultural Extension: <ul style="list-style-type: none"> <li>Methods of disseminating extension Information:               <ul style="list-style-type: none"> <li>[i] Individual method</li> <li>[ii] Group method</li> <li>[iii] Mass method</li> </ul> </li> </ul>
3	Agricultural Extension: <ul style="list-style-type: none"> <li>a. Diffusion of new ideas and techniques (innovation) to farmers</li> <li>b. Adoption categories</li> <li>c. Reasons why an innovation may not be adopted</li> </ul>

### ASSIGNMENTS:

1. Define the term 'extension'
2. List six extension programmes
3. Mention **three** examples each of [i] individual method [ii] group method [iii] mass method
4. List the adopters categories with their various percentage in the society

## GOVERNMENT

WEEKS	TOPICS/CONTENTS
1.	Nigeria's Foreign Policy: <ul style="list-style-type: none"> <li>Definition, factors influencing Nigeria's foreign policy, main objectives/features</li> </ul>

2.	Non-Aligned Movement: Definition, Historical origin, factors that stimulated the formation
3.	New Partnership for African Development [NEPAD]: Historical origin, meaning, objectives

ASSIGNMENTS:

1. [a] Define Foreign Policy  
[b] Outline any FOUR factors that influence Nigeria's Foreign Policy
2. [a] What do you understand by the term "Non-Alignment"?  
[b] identify any THREE factors that led to the formation of Non-Aligned Movement [NAM]

CHRISTIAN RELIGIOUS STUDIES

WEEKS	TOPICS/CONTENTS
1	Fellowship In The Early Church (pages 81-87): <ol style="list-style-type: none"> <li>1. Election of a successor to Judas Iscariot</li> <li>2. Communal Living in the early Church</li> <li>3. (a). Problems in the early Christian Community – the story of Ananias &amp; Saphira (Acts 5:1-11) (b). The problem of Nepotism in the early Christian Community(Acts 6:1)</li> </ol>
2	The Holy Spirit And Mission To The Gentiles (pages 88-101): <ol style="list-style-type: none"> <li>1. Pentecost and the coming of the Holy Spirit (Acts 1:8; 2:1-13)</li> <li>2. The main features of Peter's address to the multitude on the day of Pentecost (Acts 2:14-42)</li> <li>3. Mission to the gentiles</li> </ol>
3	Opposition To The Gospel Message (pages 102-109): <ol style="list-style-type: none"> <li>1. The first arrest, trial and imprisonment of the apostles, Peter and John (Acts 4:1-31)</li> <li>2. The second arrest of the disciples and Gamaliel's intervention (Acts 5:17-42)</li> <li>3. Opposition against Stephen (Acts 6:8-15;7:1-60)/Herod's opposition (Acts 12:1-24)</li> </ol>

ASSIGNMENTS:

1. (a). Give an account of the election of Matthias as a successor to Judas.  
(b). Why was it necessary that Matthias be elected to replace Judas?
2. (a). Give an account of the coming of the Holy Spirit?



- (b). Of what importance is the coming of the Holy Spirit to the Church?
3. (a). Give a detailed account of the first arrest and trial of Peter and John.  
 (b). State the lessons in Peter's response to the Jewish religious leaders.  
 (c). How did Gamaliel defend the apostles from being killed by the Jews?

#### CHEMISTRY

WEEKS	TOPICS/CONTENTS
1	General revision on Organic chemistry {alkanols}
2	Revision on redox reaction
3	General revision of past questions: 2013 – 2020

#### BIOLOGY

WEEKS	TOPICS/CONTENTS
1	Fruits: Classification of fruits – fleshy and dry fruits
2	Adaptation for Survival: Competition, Structural adaptation
3	Evolution and Genetics: Definition and evidence of evolution, Mendel's work in genetics

#### ASSIGNMENTS:

1. Draw and label the structure of mango (drupe)
2. State the Mendel's first law of inheritance