

HALLMARK SECONDARY SCHOOL, ONDO
SECOND TERM HOLIDAY ASSIGNMENT FOR 2023/2024 SESSION

CLASS: JSS ONE

SUBJECT: MATHEMATICS

New General Mathematics bk1

Chapter 9 Exercise 91 Number 1-10 page 76-77

Read about Addition and Subtraction of directed numbers

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SUBJECT: BUSINESS STUDIES

- 1a. Explain the meaning of book-keeping
- b. State four (4) importance of book-keeping
- 2a. State three (3) qualities of a book-keeper

.....
SUBJECT: CIVIC EDUCATION

- 1a. What is crime?
- 1b. Explain the meaning and give five examples of common crimes in Nigeria
- 2a. Mention five means of preventing common crimes
- b. State two ways of relating with security agents in the community

Read on:

National Value book 1 page 106-122

.....
SUBJECT: SOCIAL STUDIES

1. Define social problem
2. Mention 10 contemporary social problems in Nigeria

Read HIV/AIDs

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SUBJECT: HOME ECONOMICS

1. Explain 'household craft'
2. List any five tools used for making household craft
3. Mention any five examples of household craft

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SUBJECT: CHRISTIAN RELIGIOUS STUDIES

- 1a. Who is a friend?
- b. What are the factors of choosing friends?
2. Explain the friendship between David and Jonathan
3. ***Read all about family***

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SUBJECT: COMPUTER STUDIES

- 1a. Define computer
- b. Define computer software
- c. List and explain the types of computer software

SUBJECT: BASIC TECHNOLOGY

Define and briefly explain the following terms

1. Emission
 2. Thermionic emission
 3. Photo-electric emission
 4. Cold-cathode emission
 5. Secondary emission
 6. Emitter
 7. Metal electrode
 8. Semi conductor
-

SUBJECT: P.H.E

Read on Gender participation in sports.

1. Define gender.
 2. State five reasons why female participation in sports in Nigeria is low.
 3. Say five health consequences of premarital sex in sports performance
-

SUBJECT: HISTORY

1. What is centralized state?
 - b. List five centralized state in pre-colonial Nigeria
 - c. List five non centralized state in pre-colonial Nigeria
-

SUBJECT: BASIC SCIENCE

- 1a. Define gravitational force
 - b. What is Energy?
 - c. List three (3) benefits of space travel to mankind
 2. **Read on the following topics,**
 - a. Space travel
 - b. The satellite
-

SUBJECT: YORUBA

1. Kini akoto je (ninu oju ewe kerindinlogun) (16-17)
 2. Ko iyato merin ti o wa laarin akoto ode-oni ati ti atijo pelu apeere
-

SUBJECT: MUSIC

Explain the following classification of African musical instrument

1. Membrano phone instrument
- ii. Chrodo phone instrument
- iii. Aero phone instrument
- iv. Idiophone instrument

Read the topic: "Rhythm"

SUBJECT: ENGLISH LANGUAGE

1. Underline the nouns in the following sentences;
 - a. The children were playing on the field before the teacher arrived
 - b. Taiwo and Kehinde are in the classroom
 - c. Honesty is the best policy
 - d. Chief Koku comes from Asaba
 - e. Nigeria is my country
 2. Read the comprehension passage on page 113-114 of your English textbook and answer questions 1-5
-

ORAL

1. Do the contrast of sounds /æ/ and /a: / with five words each
 2. Do the contrast of sound /e/ and /3: / with five words each
-

LITRRATURE –IN-ENGLISH

- 1a. What is simile?
 - b. Write five sentences using simile
 - 2a. What is metaphor?
 - b. Write five sentences using simile
-

SUBJECT: AGRICULTURAL SCIENCE

- 1a. Define pest
 - b. State two classes of insect pests
 - c. State four methods of controlling pests
 - d. State three harmful effect of crop pests
 - e. State three beneficial effects of crop pests
-

SUBJECT: CULTURAL AND CREATIVE ARTS

1. Draw a tree trunk
2. Read on the functions of the director in play/Drama
3. Read on costume and make-up in drama

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CLASS: JSS TWO
SUBJECT: BASIC SCIENCE

Study the following topics and answers the questions that follow

- i. Reproductive system**
- ii. Information and communication Technology (ICT)**

Questions

- 1a. Define Reproduction
- b. Enumerate the parts of female reproductive system
- c. Enumerate the parts of male reproductive system
- d. What are the importance of reproduction?
- 2a. Define Information and Communication Technology (ICT)
- c. List the components of I.C.T
- c. What are the Importance of I.C.T

.....
SUBJECT: BUSINESS STUDIES

Read and answer the following questions

- 1a. Define Ledger
- b. State the items in the ledger
- 2. Explain the meaning of petty cash book

.....
SUBJECT: CIVIC EDUCATION

Unique National Values book 2 by D.A falade
Pages 46, 47 and 48

.....
SUBJECT: P.H.E

Read on the following sports laws

- I. Tort ii. Negligence iii. Legal Liability iv. Assaults (violence) in sports
- v. Malpractice in sports vi. Insurance in sports

.....
SUBJECT: SOCIAL STUDIES

- 1. Mention ten (10) home appliance and their uses
- 2. **Read this topic "Storage"**

.....
SUBJECT: HOME ECONOMICS

- 1. Define the following
 - a. Perishable food b. List five examples of perishable food
 - 2a. Define 'food processing'
 - b. State two importance of food processing
 - c. Mention five examples of processed food
-

SUBJECT: CHRISTIAN RELIGIOUS STUDIES

1. Narrate the story of the prodigal son
 2. Read on the parable of the wheat and tares
 3. Read on the meaning of the parable of the wheat and tares
-

SUBJECT: COMPUTER STUDIES

1. What do you understand by computer professional
 - b. List and explain (5) five computer professional
 - c. Add the following binary number together
 - i. $1011_2 + 11011_2$ ii. $110011_2 + 101100_2$
-

SUBJECT: READING AND WRITING

African Drama: "Harvest of Corruption", by: Frank Ogodo Ogbeche

Questions:

State the characters and their characterizations in the play

Note: Buy the text and read it for your assignment

SUBJECT: BASIC TECHNOLOGY

1. Explain briefly the following terms
 - i. mass
 - ii. gravitational force
 - iii. acceleration
 - iv. work
 - v. tee halving
 - vi. cross halving
 - vii. butt joint
-

SUBJECT: HISTORY

1. Write about Ghana Empire
 2. List four (4) factors that lead to the rise of Ghana empire
 3. List four (4) factors that lead to the fall of Ghana empire
-

SUBJECT: MATHEMATICS

New General Mathematics bk2

Chapter 11 Exercise 11f and 11g

Number 89-90

Read on chapter 134 page 100-104 (Solving Equation)

SUBJECT: YORUBA

Ka oju ewe kerindinlogota si oju ewe kejidinlogota 56-58

1. Se akosile awon esin ode-oni ki o si salaye okookan won
-

SUBJECT: MUSIC

Construct the inversion of triads of the following key

- a. G major
- b. F flat major
- c. D major
- d. A major

2. **Read this topic "Transposition"**

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SUBJECT: SUBJECT: ENGLISH LANGUAGE

- 1a. What are prepositions?
 - b. Give ten examples of preposition in sentences
 - 2a. What are prepositional phrase?
 - b. Give five examples of prepositional phrases
-

LITERATURE –IN-ENGLISH

1. What is Drama?
 2. Explain the features of drama
-

ORAL

1. Describe voiceless and voiced and Consonants with adequate examples
-

SUBJECT: AGRICULTURAL SCIENCE

- 1a. Define fishery
 - b. Briefly explain the external features of fish with a diagram
 - c. List two method of classification of fishes
 - 2a. Explain five uses of fish and fish products
 - b. List five methods of fishing
 - c. List five methods of preserving fish
-

SUBJECT: CULTURAL AND CREATIVE ARTS

1. Give attention to light and shadow draw a tree trunk
2. Read on the activities involved in Rehearsals and the stages of rehearsal

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CLASS: JSS THREE

SUBJECT: Basic science

Study the following topics and answers the questions that follow

- i. Work, Energy and power**
- ii. Simple machine**
- iii. Skill acquisition**

Questions

- 1. A student whose mass is 50kg runs up a height of 5m in 8 seconds. Find the power used by the student. ($g = 9.8 \text{ m/s}^2$)**
- 2. List ten (10) skills that can be acquired**
- b. State the importance of skill acquisition**

.....
SUBJECT: BUSINESS STUDIES

Explain the following

- 1. Trading Account**
- 2. Balance Sheet**
- 3. Trail Balance**

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SUBJECT: CIVIC EDUCATION

Unique National Values book 3 by D.A falade
Pages 28, 29, 35 and 36

.....
SUBJECT: P.H.E

Read on the following sports heroes and heroines.

- a. Richard Ihety**
- b. Segun Odegbami**
- c. Mary Onyali**
- d. Falilat Ogunkoya**
- e. Teslin Balogun**

.....
SUBJECT: SOCIAL STUDIES

Unique National Values book 3 by D.A falade
Pages 74, 75, 77 and 78

.....
SUBJECT: HOME ECONOMICS

- 1. Define 'Sewing Machine'**
- 2. List three types of sewing machine**
- 3. Mention any five parts of sewing machine and state their uses.**

SUBJECT: CHRISTIAN RELIGIOUS STUDIES

1. Write a comprehensive note on Paul's first missionary journey (Give account on all the towns he visited)
 2. Read on unity among Christians
-

SUBJECT: COMPUTER

- 1a. Define Topology
 - b. List five types of topology and explain them
 - c. List and write out the main components of the computer generation
-

SUBJECT: BASIC TECHNOLOGY

1. Define the term abrasive
 2. State the number denoting the following grades of abrasives.
 - a. very fine
 - b. fine
 - c. medium
 - d. coarse
 - e. very coarse
 2. Explain the preservative
 3. List five qualities of a good preservative
 4. Briefly describe each of the following metal finishing processes:
 - a. buffing
 - b. Spot finishing
 - c. Hot enameling
 - d. Tinning
-

SUBJECT: HISTORY

1. List five Reasons for amalgamation of Nigerian Territories
 2. Mention three European Missionaries and write their contribution
-

SUBJECT: MATHEMATICS

1. Study the following clearly under simultaneous linear equations.
 - i. Substitution method
 - ii. Elimination method
 - iii. Word problems leading to simultaneous linear equations
 - iv. Graphical method of solving simultaneous linear equations

Exercise

1. Use the method of substitution to solve the equations; $a - 2b = 9$; $2a + 3b = 4$
 2. Solve the simultaneous Linear equation using elimination method
 $3x + 4y = 10$; $2x + 5y = 9$
 3. In 4years' time, a father will be 3times the age of his son. 4years ago, he was 5times the age of his son. What are their present ages?
-

SUBJECT: YORUBA

Ka oju-ewe kejilelogoji si oju ewe kerindinlaadota

1. Salaye lori oyub nini ati itoju oyun ni ila marun-un
 2. Se akosile awon ohun ti o le dena oyun nini
-

SUBJECT: MUSIC

1. Define Modulation
 2. Mention four (4) types of modulation
 3. Read this topic "Musical period"
-

SUBJECT: ENGLISH LANGUAGE

Do the following

1. Practice Examination
Paper (7) number 1-80
 2. Practice Examination
Paper (8) number 1-80
 3. Read the following texts
 - i. Corper Collins
 - ii. The kingmaker for all seasons
 - iii. Tears of Motherhood
-

SUBJECT: AGRICULTURAL SCIENCE

- 1a. Define Agriculture
 - b. Explain five importance of agriculture
 - 2a. Define weathering
 - b. Explain the three types of weathering
 - c. List five factors of soil formation
 - 3a. Briefly explain four packaging oriental
 - b. Explain five importance of packaging in agriculture
 - c. Explain five determinants of the price of agricultural
-

SUBJECT: CULTURAL AND CREATIVE ARTS

1. Giving proper attention to all details draw a bunch of plantain
2. Read on Dance and Unity

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SECOND TERM HOLIDAY ASSIGNMENT FOR 2023/2024 SESSION

CLASS: SSS ONE

SUBJECT: MATHEMATICS

1. Buy the following items (compulsory)
 - Essential maths text book for SS1
 - Statistical tables and formulae (four figure tables)
 - Graph book
 - A complete Mathematics set
 - 10 pieces of A4 paper
 2. Study the Geometric construction vividly. Open to page 315 to 326. Then: use your knowledge to
 - Construct these special angles: 30° , 60° , 45° , 90° . Use 1 4a paper for this.
 - Construct these derived angles; 75° , 105° , 135° , 150° . Use 1 a4 paper for this
 3. Having understood the guidelines of geometric construction. Then:
 - a. Construct a parallel sides use any convenient radius
 - b. Construct a triangles WXY in which $WX = 8\text{cm}$, $\angle WXY = 120^{\circ}$ and $WY = 12\text{cm}$
Construct a circle so that it touches W, X and Y. Measure the radius
 - c. Using ruler and a pair of compasses only, Construct a trapezium ABCD, in which the parallel sides AB and DC are 4cm apart, $\angle DAB = 60^{\circ}$, $AB = 8\text{cm}$ and $BC = 5\text{cm}$. Measure DC (WAEC)
 - d. Use a ruler and a pair of compasses only to construct an inscribed circle in a triangle ABC of sides $AB = 8.5\text{cm}$, $AC = 7\text{cm}$ and $\angle CAB = 60^{\circ}$
 - i. Measure the radius of the circle
 - ii. Calculate the area of the inscribed circle
- N.B. you are submitting 6 A4 paper for this assignment I.E 2,3a, b, c, d**
4. Get WAEC 2023 objective past questions Answer Questions 1, 2, 3, 4, 5, 8, , 10, 11, 12, 13.

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SUBJECT: ENGLISH LANGUAGE

- 1a. Give twenty idioms and use them in sentences
- b. Give twenty phrasal verbs with copious examples
- 2a. Give ten words for the following etymology
 - i. Greek
 - ii. Latin
 - iii. French
 - iv. Spanish

Read on the following topics

- 1i. Clauses and phrases
- ii. Sentences and types
- iii. Clauses and types
- iv. Conjunctions and types
- v. Synonyms & Antonyms
- vi. Rules for public speaking and speech Delivery
- 2i. Concord

- ii. Rules of concord
 - iii. Relative Pronouns
 - v. Topic Sentences
 - vi. Different types of Essay Writings
-

SUBJECT: BIOLOGY

Study the following topics and answer the questions that follow;

- i. Asexual reproduction
- ii. Nutrition in Animals
- iii. Nutrition in Plants

Questions

- i. With the aid of diagrams, explain the types of Artificial vegetative propagation
 - ii. Explain succinctly the types of Heterotrophic nutrition
 - iii. Highlight the various steps involved in the process of photosynthesis
-

SUBJECT: LITERATURE – IN- ENGLISH

African Drama: ‘The Lion and The Jewel’, by: Wole Soyinka

Questions:

State the characters and their characterizations in the play

Note: Buy the text and read it for your assignment

SUBJECT: HISTORY

- 1. What were reasons for state creation in Nigeria
 - 2. Write not less than a page each on the following
 - i. Discovery of crude oil and its impacts on the political and economic history of Nigeria
 - ii. By January 15; 1970, the Nigerian civil war came to an end with ‘No victor, No vanquished. Expatriate
-

SUBJECT: DYEING/BLEACHING

- 1. What is texturing in fabric decoration
 - 2. Mention five techniques of texturing fabrics in dyeing and bleaching
 - 3. List 10 tools used in Tie/dye
-

SUBJECT: VISUAL ART

- 1a. What is applied arts
 - b. List five examples of applied arts
 - 2a. What is ceramics
 - b. Explain four methods of making potteries
 - 3. Make a drawing and shading of the following object
 - i. An umbrella
 - ii. 2 tubers of yam
 - iii. A group of 2 small trees
 - iv. Portrait of the Nigerian hero on #500 = naira note
-

SUBJECT: FINANCIAL ACCOUNTING

Read the following topics

1. Three column cash book
 2. Petty cash book
 3. Preparation of both three column cash book and petty cash book
 - 4i. Meaning of Trial Balance
 - ii. Importance of Trial Balance
 - iii. Preparation of Trial Balance
-

.SUBJECT: GEOGRAPHY

Study the following topics

1. The structure of the earth
 2. The Rocks of the Earth
 3. The Mountains
-

SUBJECT: CATERING CRAFT AND PARCTICES

1. State five functions of restaurant manager
 2. List five duties of food and beverages manager
-

HOME MANAGEMENT

1. What is household linen?
 2. List types of household line
 3. State five factors that influence the selection of household linen
-

SUBJECT: CIVIC EDUCATION

- 1a. Define Orderliness
 - b. Explain five importance of orderliness in the society
 2. Explain four forms of constituted authority
-

SUBJECT: GOVERNMENT

- 1a. Define political participation
 - b. Explain four ways citizens participate actively in polities
 - 2a. Distinguish between constitutionalism and constitution
 - b. Mention four reasons why a constitution is necessary in Nigeria
-

SUBJECT: YORUBA

Ka oju ewe ketalelaadorun (93) si oju ewe karundinlogoorun (95) ki o si se akosile ona ti a le gba toju ara wa

SUBJECT: PHYSICS

Read and study hard the underlisted topics

1. Work, Energy and Power
2. Static Electricity

Note: Solve as many problems under the topics, as possible

SUBJECT: AGRICULTURAL SCIENCE

Study formation, composition and properties of soil and answer the following questions:

- i. Define soil
 - ii. Explain how climate, parent materials, topography, biotic factors (living organisms) and time control soil formation
 - iii. Write short note on the following components of soil: inorganic (mineral) matter, organic matter, soil water, soil air and soil living organisms
-

SUBJECT: FURTHER MATHEMATICS

Study vigorously the following topics:

1. Surds
 - Rules of surds
 - conjugate surds
 - Rationalizing the denominator
 - Equality of surds
 - Equations in irrational forms
2. Sequences and Series
 - Sequence
 - Linear sequence
 - Exponential sequence
 - series
 - other progressions

Answer the underlisted questions

1. Express $\frac{\sqrt[7]{2} + \sqrt[3]{3}}{\sqrt[4]{2} - \sqrt[2]{3}}$ in the form $a + b\sqrt{c}$

Where a, b and c are rational numbers

2. The sum of the 6th and 8th terms of an arithmetic progression is 142. If the fourth term is 49, find the sum of the first seven terms of the progression
 3. The Second and fifth terms of a geometric progression (G.P) are 1 and $\frac{1}{8}$ respectively. Find the eighth term of the progression
-

SUBJECT: TECHNICAL DRAWING

Study vigorously the following topic:

1. Circles and triangles
 - Parts of a circle
 - circumscribing a triangle
 - inscribing a circle in a triangle
 - Ascribing a circle on a triangle

Answer the following questions

1. Draw a circle of 35mm radius. Show in it a chord 45mm long, a sector to contain 52° and a segment whose greatest height is 12mm.
2. Construct a triangle with sides 40mm, 60mm, and 80mm. Circumscribe a circle about this triangle

SUBJECT: CHEMISTRY

Read and study carefully the following to:

1. Laws of chemical combination under the following headings
 - a. Law of conservation of mass
 - Law of definite proportion
 - Law of Multiple proportion
 - Law of Reciprocal proportion
 - b. Solve calculation problems on the above Laws
 - 2a. The four Quantum Numbers
 - Define final state the four quantum numbers
 - b. The principles or Rule that govern Electron filling into orbital's
 - State and define the rules
-

SUBJECT: ECONOMICS

Study the topics below and answer the questions that follow:

1. Population
2. Labour market (part 1)

Questions

1. Briefly outline the views of Thomas Malthus about population
 2. How valuable are such views in question 1 above relevant to the Nigeria situation today?
 3. Define ageing population and explain its effect on an economy
 4. Explain the term mobility of Labour
 5. What is Labour force?
 6. Why may labour as a mobile factor of population be unwilling to move?
-

SUBJECT: FISHERY

1. What is water Quality in fishery?
 2. List the parameters of water Quality optimal for fish
 3. Check online and print out about the following topics:
 - a. Effect of turbidity on fish production
 - b. Fish Nutrition and fish seed materials
-

HALLMARK SECONDARY SCHOOL, ONDO
SECOND TERM HOLIDAY ASSIGNMENT FOR 2023/2024 SESSION

CLASS: SSS TWO

SUBJECT: AGRICULTURAL SCIENCE

Study Anatomy and physiology of farm Animal and answer the following questions:

- i. Define respiration
- ii. Explain the two types of respiration
- iii. Explain the processes of breathing
- iv. Briefly explain the central nervous system and the peripheral nervous system
- v. Briefly explain types of neurons, transmission of nerve impulse, reflex actions and reflex are.

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SUBJECT: ENGLISH LANGUAGE

1. Write an article on the topic:
The Effects of parental influence on students' career choice'
2. Attempt the summary questions on pages 232 and 251 of your English textbook
3. Attempt the vocabulary Development questions (Prefixes and Suffixes) on page 229 (question A and B) of your English textbook

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SUBJECT: BIOLOGY

Study the following topics and answer the questions that follow:

- i. Excretory system
- ii. Respiratory system
- iii. Ecological management

Questions

1. Write briefly on the following respiratory organs:
 - a. Tracheal system
 - b. Gills in bony fishes
 - c. simple gills
 - d. Cutaneous respiration
 - d. Buccal respiration
- 2a. List ten (10) organisms and their excretory structures
- b. Explain excretory mechanism in earthworm and insects. **(Diagrams are required)**

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SUBJECT: LITERATURE – IN- ENGLISH

Get and read the following texts:

1. Let me Die Alone by John Kolasa kargbo
2. Look Back in Anger by August Wilson

Pay attention to the paints below:

- Background
- Setting
- Plot Account
- Themes
- Dramatic Techniques

SUBJECT: DYEING/BLEACHING

- 1a. What is Batik
 - b. List any 10 materials for Batik
 - c. Mention ten tools for Batik
 - d. State five problems in Batik
-

SUBJECT: VISUAL ART

1. What is contemporary arts
 2. List ten contemporary Nigerian artist stating their names, area of specialization and state of origin
 3. Make a still life drawing of a kettle on a stove
-

SUBJECT: FINANCIAL ACCOUNTING

Study the following topics:

1. Adjustments entries in the trial accounts
 - i. Prepayment
 - ii. Accruals
 - iii. Capital
 - iv. Revenue items
 - 2i. Meaning of Balance sheet
 - ii. Importance of balance sheet
 - iii. Preparation of balance sheet
 2. Control ledger accounts
 - i. Sales control account
 - ii. Purchases control account
-

SUBJECT: GEOGRAPHY

Study these topics

1. The world population
 2. The world industries
 3. Map reading: The seale
-

SUBJECT: CATERING CRAFT AND PARCTICES

1. State five factors to consider before planning menu
 2. List causes of overweight
-

HOME MANAGEMENT

1. Differentiate between cleaning equipment and tools
 2. List some examples of cleaning agents
 3. Give examples of cleaning tools
-

SUBJECT: CIVIC EDUCATION

1a. Define three items found on:

- i. Exclusive legislative list (ii) Concurrent legislative list (iii) Residual
-

SUBJECT: GOVERNMENT

1a. Define Federalism

b. Narrate how states were created in Nigeria (State the date they were created and the Nigerian Head of state who created them)

2. Mention five political parties that were established in the first republic

SUBJECT: PHYSICS

1. Study the following clearly under simple harmonic motion

- i. Energy of a body under simple harmonic motion with solved questions
ii. Period of a simple pendulum, period of a mass loaded spring with solved questions
iii. Forced vibration and resonance

Exercise

1. A simple pendulum has a period of 3.45 seconds. When the length of the pendulum is shortened by 1.0m, the period is 2.81 seconds. Calculate:

- a. The original length of the pendulum
b. The value of the acceleration due to gravity

2. LINER MOMENTUM

Study the following under the above named topic clearly

- i. Momentum and its S.I unit
ii. Impulse and its S.I unit
iii. Solved questions on momentum and impulse
iv. Conservation of Linear momentum
v. Types of collisions
vi. Solved examples on the types of collision
-

SUBJECT: MATHEMATICS

Study these topics vigorously:

1. Linear inequalities
- Linear inequalities un one variable
- Linear inequalities in two variables
- Linear programming
2. Geometrical ratios
- Equal intercepts
- Proportional division of the sides of a triangle
- Bi-sector of an angle in a triangle
- Similar triangles

Answer the following questions

1. In $\triangle ABC$, $AB = 10\text{cm}$ and $AC = 18\text{cm}$. M is the mid-point of BC and the bi-sector of A meets \overline{BC} at N. If $MN = 2\text{cm}$, calculate BC
2. Express $3x - 2 < 10 + x < 2 + 5x$ in the form $a < x < b$, where a and b are both integers

3. Solve graphically the simultaneous inequalities $4x + 3y < 12$, $y = 0$, $x > 0$ for integral value of x and y
-

SUBJECT: FURTHER MATHEMATICS

Study vigorously these topics:

1. Polynomials

- Addition and subtraction of polynomials
- Multiplication and division of polynomials
- Zeros of polynomials
- The remainder theorem
- The factor theorem
- Graphs of polynomials
- Root of cubic equations
- Synthetic division of polynomials

2. The remainder when the polynomial $f(x) = 2x^2 + px^2 + qx + 18$ is divided by $(x - 1)$ is 10.

When it is divided by $(x + 1)$ the remainder is 12.

- a. Find;
- i. The values of the constants p and q ;
 - ii. The Zeros of $f(x)$
- b. Hence or otherwise, sketch the graph of $f(x)$
-

SUBJECT: TECHNICAL DRAWING

Study vigorously these topics

1. Equal area of similar figures
- Theorem of equal areas
 - Conversion of area of plane figures
2. Tangents and tangency
- Constructing a tangent to a circle from a given point outside it and from a point on the circumference
 - Constructing a common, internal tangent to two equal and two unequal circles
 - Constructing a common external tangent to two equal and two unequal circle

Answer these questions

1. Using accurate geometrical constructions draw a square equal in area to an equilateral triangle with 75mm sides. Dimension, to the nearest millimeter, the side of the figure you obtain
2. Draw an external tangent to two equal circles of 60mm diameter
3. Draw an internal tangent to two circles of diameters 60mm and 35mm

SUBJECT: CHEMISTRY

Read and study carefully

Mass and volume Relationship under the following headings:

- i. Stoichiometry of chemical reactions
 - ii. Mole ratio
 - Mass Relationship
 - Mole to mole
 - mole to volume
 - : Solve calculation problems on the above stated sub-topic
-

SUBJECT: ECONOMICS

Study the topics below and answer the questions that follow:

- 1. Industries in Nigeria
- 2. Agriculture

Questions

- 1. What are the likely reasons for government participation in the location of industries in Nigeria?
 - 2. Explain each of the following:
 - a. Indigenization
 - b. Localisation of industries
 - c. Economies of scale
 - d. National budget
 - 3a. What are four reasons for protecting infant industries
 - 4. Discuss the different types of agricultural system that exist in West Africa
-

SUBJECT: FISHERY

- 1. Explain breeding in fish
- 2. Give the types of Reproduction in fish
- 3. Check online and print out about the following topics:
 - a. Fish Diseases, Symptoms and treatments
 - b. Management and Nursing of fish seeds