

# UNICENT GROUP OF SCHOOLS

93B EWEKA STREET, OFF UPPER LAWANI ROAD,  
OPPOSITE LUCKY STREET JUNCTION,  
NEW BENIN, BENIN CITY.

## PROJECT WORK FOR SS3 FIRST TERM 2018

**INSTRUCTION: TO BE SUBMITTED ON OR BEFORE 18<sup>TH</sup> SEPTEMBER 2018**

### ECONOMICS

1. With a well-labelled diagram, explain the circular flow of income.
2. Explain the concept of the elementary theory of the multiplier

### CHEMISTRY

1. Metals like aluminum and magnesium were discovered about two hundred years ago. Copper was discovered about 10,000 years ago (the bronze age) and iron about 4000 years ago (iron age). The more reactive a metal is, the longer it took for it to be discovered. Explain why this is so
2. Two scientists plan to extract copper, silver and gold from seawater. But all they got so far is salt. Suggest reasons why these scientists have failed in their attempt to extract silver and gold from seawater

### PHYSICS

1. With the use of wood and constantan wire only, construct a standard potentiometer.

### CIVIC EDUCATION

1. Define human rights
2. Mention and explain five (5) characteristics of human rights
3. State ten (10) fundamental human rights known to you
4. Differentiate between the categories of human rights

### GEOGRAPHY

On not less than 2 full scap sheets, discuss succinctly “environmental Balance” drawing fully all the necessary cycles and with at least any two factors that can alter each

### BIOLOGY

1. List the main organs and substances involved in homeostasis
2. List some endocrine glands, their positions in the body and their functions
3. State the effect of over production or under production of the hormones produced in the body
4. Draw a well labeled diagram of the following on a Carbon paper
  - (a) Human Brain
  - (b) Spinal Cord
  - (c) Neurone

### GOVERNMENT

1. Give a brief account of the origin of Nigeria federalism
2. Explain the major constitutional conferences that lead to the establishment of federalism in Nigeria

### LITERATURE IN ENGLISH

1. African prose: Faceless – by Amma Darko
  - (i) Attempt chapter by chapter summary of the novel.
  - (ii) Discuss the roles of the following characters. (a) Folo (b) Kweii (c) Odaoley.
2. Non-African prose: Native Son – ‘Richard Wright’.
  - (i) Discuss the theme of ‘Racial Discrimination’ in ‘Native Son’ by Richard Wright.
  - (ii) Discuss the following Narrative Techniques: (a) symbolism (b) Foreshadowing.

## MATHEMATICS

Using the alphabets with the code

**A, B, C, D to Z**

**1, 2, 3, 4 to 26**

Use the numbers representing each letter of your name to form a  $2 \times 3$  matrix and that of your surname to form a  $3 \times 3$  matrix.

**NOTE:** i. where the letters of your name is less than 6, **add** letter 'X' till it is complete and if that of your surname is less than 9, **add** letter 'Q' till it is complete.  
ii. where they are more than required take the first 6 for your name and last 9 for your surname

1. Find the sum of the two matrices
2. Find the product of the matrix of your name and that of your surname in that order
3. Find the determinant of the resulting matrix in 2 above

## FURTHER MATHEMATICS

1. (a) Find the non-zero positive value of  $x$  which satisfies the equation

$$\begin{vmatrix} x & 1 & 0 \\ 1 & x & 1 \\ 0 & 1 & x \end{vmatrix} = 0$$

(b) find the equation of the line through the point ( 1, 2 ) and parallel to the line  $4x - y = 2$

2. (a) if  $y = 3t^3 + 2t^2 - 7t + 3$ , find  $\frac{dy}{dt}$  at  $t = 1$   
(b) If  $y = 2 \tan 3x + \cos 2x - \sin 5x$ , find  $\frac{dy}{dx}$   
(c) the minimum point on the curve  $y = x^2 - 6x + 5$
3. (a) Find the integral of  $3 \cos 2x - 2 \sin x$   
b. Bola chooses at random a number between 100 and 300. What is the probability that the number is divisible by 4 ?

## ENGLISH LANGUAGE

**Answer any two questions**

1. Your uncle has asked you to tell him about your educational ambition so that he may assist you. Write a letter to him thanking him and giving details of your plans.
2. Write an article suitable for publication in a national newspaper on unemployment in your country highlighting its effects and the way out.
3. The rate of power outage in your locality has become alarming. Write a letter to the area manager of the electricity company

complaining about the effects of the problem and asking him to come to your aid.

## COMMERCE

1. Explain the following types of Cooperative Societies
  - (a) Consumer Societies
  - (b) Producer Societies
  - (c) Wholesaler Societies
  - (d) Retailer Societies
  - (e) Thrift and credit cooperative Societies
2. What do you understand by the following:
  - (a) Memorandum of Association
  - (b) Articles of Association

## MARKETING

1. Explain the following price determinants:
  - a. Ability to pay
  - b. Competition
  - c. Profit maximization
2. Give reasons for adopting marketing plans to international markets

## C. R. S

1. Highlight and describe the teaching of Jesus on the Mount
  - i. Beatitudes
  - ii. Prayer
  - iii. Fasting
  - iv. Anxiety
  - v. Revenge
  - vi. Worldly possessions
  - vii. Our relationship with those who love us and those who hate us