

JS1 RESEARCH TOPICS FOR FIRST TERM 2021/2022 ACADEMIC YEAR

JS1 BASIC TECHNOLOGY

1. Give briefly historical development of technology. Using local examples
2. Explain basic technology as relate to technology. State its importance
3. Explain accident, causes and safety rules and regulations

JS1 BUSINESS STUDIES

- 1a. What is an office?
- b. Differentiate between the two types of office
2. With the aid of a diagram draw an organization chart

JS1 SOCIAL STUDIES

Explain the history and origin of Nigerina social studies education

JS1 IGBO

Omenaala ihe gbasara Oji
Gini bu mkpuru osisi a, a na-akpo Oji?
Olee mgbe e ji acho oji?
Olee nsopuru a na-enye oji?
Dee ihe ndi ga-anochite anya oji
Dee uru oji bara
Kowaa maka mkpekere oji ya bu ihe oji gbara

JS1 COMPUTER

1. Write on Technology of different ages
2. Write on Evolution of information and communication technology

JS1 BASIC SCIENCE

1. What is sanitation?
2. Mention two (2) forms / types of refuse materials you know and explain one (1)
3. What is drug or substance abuse
4. Name four 4 control measures of air pollution

JS1 AGRICULTURAL SCIENCE

In not less than four pages write on the classes and uses of crops

JS1 CIVIC EDUCATION

1. Enumerate five natural talents that people posses
2. Discuss two consequences of being dependent on others
3. Mention four factors that promote co-operation
4. What is co-operation?

JS1 FRENCH

1. Using the internet list any twenty French speaking countries of the world
2. Write five reasons why the knowledge of French Language as a foreign language is important for the Nigeria students

JS1 MUSIC

1. Write on the topic notation of music

JS1 CCA

Write out the importance of arts to the society

JS1 P H E

Write on the general benefits of physical education on an individual

JS1 C R S

Topics: Disobedience

(i) Biblical account of first human disobedience Gen: 3: 1 – 9

Topics: Consequence of Adam and Eve's Disobedience

(ii) 3: 1 – 9, Meaning of disobedience

(iii) Consequences of disobedience of Adam and Eve including the serpent. Gen 3: 14 – 19

Topics; Learners disobedience and consequences

(iv) Learners disobedience and consequences

Topics: Disobedience against national laws

(v) Ways peoples disobey the national laws and consequences

JS1 MATHEMATICS

1. Subtract 200009 from 30008 and give your answer in roman figure

2. Evaluate $\frac{0.22 \times 0.11 \times 0.80}{0.00044}$

3. Find the missing numbers

$$\frac{1}{3} = \frac{3}{9} = \frac{6}{\square} = \frac{\square}{24} = \frac{50}{\square} = \frac{\square}{900} = \frac{100}{\square}$$

JS1 ENGLISH LANGAUGE

In not more than two pages of your foolscap sheet write a good composition on “My First Day at Urban Secondary School”

JS1 CAT

Write out the Apostle's creed and discuss the articles of the creed 1 – 5

JS2 RESEARCH TOPICS FOR FIRST TERM 2021/2022 ACADEMIC YEAR

JS2 BASIC TECHNOLOGY

1. Explain seasoning, methods and state the moisture content of a wood
2. Calculate the weight of a French wood that weight 60gms, dry the wood and weight it, let the weight of the dry wood to be 40 gms with this record, find the percentage of the moisture content
- 3a. Explain Geometrical construction
- b. Construct an angle of 75° , 120° , 90° , 45°

JS2 CIVIC EDUCATION

1. Explain the meaning of integrity
2. Identify four attributes of integrity and discuss two of them
3. Write short note on the following
 - a. Corruption (b) greed (c) prostitution (d) cheating
4. Define courage and give three (3) examples of courageous people you know

JS2 BUSINESS STUDIES

- 1a. Who is a receptionist?
- b. Give the meaning of reception office?
- c. List and explain documents handled by a receptionist?

JS2 SOCIAL STUDIES

1. What is Drug Abuse
2. Explain the consequences of drug abuse on (i) individuals (ii) nation

JS2 IGBO

Dee ihe nchoputa gbasara Ezinulo ndi Igbo
Gini bu Ezinulo?
Olee ihe bu ezinulo ndi Igbo?
Gini bu ndiiche di n'etiti ezinulo ndi Igbo na nke ndi bekee?
Onye bu onyeisi ezinulo?
Dee oru nna n'ezinulo
Dee oru nne n'ezinulo
Dee oru umuaka n'ezinulo
Dee ihe mmadu niile no n'ezinulo kwesiri idi na-emekota onu.

JS2 COMPUTER

1. Write on classification of computers
2. Write on components of a computer system

JS2 BASIC SCIENCE

1. Define Ecology ?
2. In a tabular form differentiate between biotic and abiotic factors in an ecosystem
3. Critically classified chemicals based on hazardous nature
4. List out the safety measures when using chemicals

JS2 AGRICULTURAL SCIENCE

In not less than four pages write on cultural practices in Agriculture

JS2 MUSIC

Write on the topic Origin of music (History of music)

JS2 CCA

Give the meaning of theater design. What does design do for a play production

JS2 FRENCH

1. Using the internet or your English French – dictionary list any twenty daily verbs with their English meanings example

Dormir – To sleep

Manger – To eat

2. Write ten adjectives in French and their English meanings, make a sentence with each of the adjectives listed

Example

Obeissant (Masculin)

Obeissante (Feminine)

Uche est obeissante

Ada est obeissante

JS2 P H E

Indoor and outdoor games as recreational activities

JS2 C R S

Topic: Baptism and Temptations of Jesus Christ

(i) Fore-Runner of Jesus Mk 1 : 1 – 8; Lk 3 : 1 – 20

(ii) Meaning of Baptism

(iii) Baptism of Jesus Christ. Mtt 3 : 3 – 17; Mk 1 : 9 – 11; Lk 3 : 21 – 22

(iv) Meaning of temptation

(v) Temptations of Jesus Christ Mtt 4 : 1 – 11

JS2 MATHEMATICS

1. Simplify the following

$$(3.6 \times 10^7) \div (1.2 \times 10^3)$$

2. Express the following as a decimal fraction 2.8×10^{-4}

3. Find the square root of $\frac{75}{108}$

JS2 ENGLISH LANGAUGE

Using the example given below write twenty (20) verbs giving their base, present, past, perfect and progressive forms (tenses)

| Base | Present tense | Past tense | Perfect tense | Progressive tense |
|-------|---------------|------------|---------------|-------------------|
| Write | Writes | Wrote | Written | Writing |
| Call | Calls | Called | Called | Calling |

JS2 CAT

Discuss in full the seven sacraments

JS3 RESEARCH TOPICS FOR FIRST TERM 2021/2022 ACADEMIC YEAR

JS3 BASIC TECHNOLOGY

1. Explain methods of producing the following in an industry
 - a. Ceramics (b) plastics (c) metals (d) rubber (e) veneer board
2. Define Isometric drawing and illustrate its axes, principal views, plane of projection
Draw Orthographic views of a simple objects in first angle projection
- 3a. Explain career prospects and opportunities in technology in your country
- b. State the difference between orthographic projection and isometric projection

JS3 CIVIC EDUCATION

1. Explain features of 2 colonial constitution
2. Explain the meaning of the supremacy of the constitution
3. State two reasons why the constitution is supreme
4. Write down some features of colonial Nigeria constitution

JS3 BUSINESS STUDIES

1. In details give the meaning of office procedure
2. What do you understand by office equipments
3. List and explain any five office equipments with their uses and importance

JS3 IGBO

Dee ndiiche di n'etiti ndi uka katoliki (Catholic) na ndi uka ndi ozo

JS3 BASIC SCIENCE

1. Family trait
2. Mention 5 reasons for family triat
3. Write short notes on this followings (a) flooding (b) bush burning (c) deforestation (d) desertification and depletion of ozone layer

JS3 AGRICULTURAL SCIENCE

In not less than four pages write on records and book-keeping

JS3 FRENCH

1. List any 50 daily verbs in French with their English meanings
Example
Parler – To speak
Chanter – To sing
2. List any 20 professions in French with their English meanings

JS3 SOCIAL STUDIES

Explain the cognitive, affective and psychomotor contents of social studies and their learning experiences

JS3 MUSIC

Write on the topic uses of music and also the impact of music

JS3 CCA

How is theater used as a source of development

What are the problems in your locality and how can drama solve it.

JS3 MATHEMATICS

1. The sum of two numbers is 21. $\frac{3}{4}$ of one of the numbers added to $\frac{2}{3}$ of the other gives a sum of 15. Find the two numbers.
2. Find the value of the square of 111_{two} leaving your answer in base two

JS3 P H E

What is violence in sports

Think of the causes and effects of violence of sports

JS3 C R S

Topics: Persecution of the Early Believers

(i) Arrest of Peter and John, Acts 4 : 1 – 31. Give reasons for the arrest of the Apostles

(ii) Arrest and Martyrdom of Stephen. Acts 6 : 8 – 15 7 : 1 – 60 – Summarize of Stephen's defense

JS3 ENGLISH LANGAUGE

Review the book

“A Fool's Paradise”

Review and summarize the chapters in it

JS3 COMPUTER

1. Write brief history of Ms – Excel

State types and benefits of spreadsheet package

Features of Ms-Excel as a spread sheet package

SS1 RESEARCH TOPICS FOR FIRST TERM 2021/2022 ACADEMIC YEAR

SS1 ECONOMICS

Define an economic system

Identify and briefly explain the basic economic problem of the society

Research should be written in your notebook

SS1 AGRICULTURAL SCIENCE

Write on the meaning and importance of Agriculture

SS1 IGBO

1a. Kowaa ihe bu nkebiokwu

b. Deputa nkebiokwu di iche iche, kowaa ha ma nyekwa omumaatu ha

ch. Deputa njirimara nkebiokwu

2a. Kowaa ihe bu Igbo Izugbe ma nyekwa omumaatu ya

b. Deputa njirimara Igbo Izugbe

ch. Kowaa ihe bu olumba / olundi ma nyekwa omumaatu ya

d. Deputa njirimara olumba / olundi

e. Deputa omumaatu Igbo Izugbe na olundi

f. Deputa ndiiche di n' etiti Igbo Izugbe na olundi / olumba

SS1 LIT-IN-ENGLISH

Write the biography of your father

SS1 C R S

Make research on these topic with the following guidelines

(a) Introduction (b) Bible quotation (c) body message (d) significance (e) Lessons

The topics are

(1) The sovereignty of God (2) The covenant (3) Leadership (4) God's care for his people (5) parental responsibility

Also old and new testament and their chapters

SS1 GEOGRAPHY

1. Discuss about the planet, mercury

SS1 CIVIC EDUCATION

Definition of civic education

Objective of civic education

Methods of studying civic education

Values and types of value

Discuss five ways of preventing the spread of Corona-virus

SS1 BIOLOGY

Topic: Ecological concept

Write on the characteristics and examples of both plants and animals found in the local biotic communities like

Tropical rain forest

Southern guinea savanna

Northern guinea savanna

Sahel savanna

Desert

Swamp / estuarine regions

SS1 CAT

Discuss in full Virtues and vices

SS1 GOVERNMENT

The meaning and explanations and scope of government: General definition and explanation of government with emphasis on:

Government as an institution of the state. Government as an art of government. Government as an academic field of study. Essential attributes or features of government. Functions of modern government in a state.

Importance of studying of government

SS1 ENGLISH LANGAUGE

Write extensively on different parts of speech in English language

SS1 CHEMISTRY

Petroleum

Refining in Nigeria

Fractions and uses

SS1 PHYSICS

1. Name the instruments you would use to make measurements on a given length of wire in order to calculate the volume of the wire. Which of the measurements should be repeated several times in order to make the calculation very accurate and why

2.

SS1 MATHEMATICS ``

Evaluate $\frac{5\sqrt{5932 \times 6141}}{3679 \times 3113}$ Using Logarithm tables.

2. In a certain examination, 152 candidates offered Agriculture (a) , 136 chemistry (c) and 128 physics (P) 52 offered both A and C, candidates offered all three subjects

- Draw a venn diagram to illustrate the information
- Find the total number of candidates that sat for the examination

SS1 FURTHER MATHEMATICS

1. Rationalize the denominator of the following surdic fractions:

a. $3 + \sqrt{5}$ (b). $\sqrt{5} + \sqrt{3}$
 $3\sqrt{7} - 4\sqrt{5}$ $4\sqrt{11} + 3\sqrt{7}$

2. Given that $A = \begin{pmatrix} 2 & 1 & 2 \\ -1 & 2 & 0 \\ 1 & 2 & 3 \end{pmatrix}$

Find A^{adj} (That is the adjoint of A)

SS1 COMPUTER

- State the history of computer, characteristics and capabilities of computer
- Classification of computers base on Age of Engineering: (Generations of computer)

First, Second, Third, fourth and fifth generations

- Classification according to size: Mainframe , Mini computer , Micro computer

Classification according to mode of operation

Digital computer

Analog computer

Hybrid computer

Classification according to purpose:

Special purpose computer

General purpose computer

General purpose computer

- Data and Information

Definition of data and information

Types of data

Ways of handling data

Digitalization

SS2 RESEARCH TOPICS FOR FIRST TERM 2021/2022 ACADEMIC YEAR

SS2 ECONOMICS

Briefly discuss firms and industry

Under the following headings:- definition of Industrial concept such as – plant, factory, firm, industry and industrial estate

Factors determining the size of a firm

Meaning of industrialization, types of industry location of industries and factors that can influence its location

SS2 AGRICULTURAL SCIENCE

Write on the husbandry of the following plants (i) cow pea (ii) cocoa (iii) oil palm

SS2 IGBO

1. Ekwumekwu ikpochapu ubiam na aguu

a. Nkwa ubiam na aguu

b. Ihe na-ebute ubiam na aguu

ch. Uzo di iche iche e si ekpochapu ubiam na aguu

d. Oghom na-esi na ya aputa uzo a ga-esi gbochie ubiam na aguu

2. Echichi na echimechi odinaala

a. Ihe o putara

b. Udi echiche di icche iche

ch. Ndi kwesiri ichi echichi

d. Uru echichi bara

e. Oghom di n'ichi echichi

SS2 LIT-IN-ENGLISH

Read the work – The Lion And The Jewel By Wole Soyinka and bring out

(a) The themes in the play

(b) The Dramatic techniques and settings

(c) The plot summary of the play

(d) Character assessments in the play

SS2 C R S

Make research on these topic with the following guidelines

(a) Introduction (b) Bible quotation (c) body message (d) significance (e) Lessons

(1) The birth, baptism, temptation

Discipleship

Miracles

The parables

Sermon on the mount

SS2 ENGLISH LANGAUGE

Read wide, research and find out the meanings features and functions of these terms

1. What is Language?

2. What do you understand by:

(a) language is systematic and structured (b) language is human specific (c) language is primarily speech

(d) language is natural (e) language varies and changes

3. List seven characteristics of language

SS2 CIVIC EDUCATION

Meaning of citizenship education, importance of citizenship education

Examine national consciousness, national unity and national integration

Give reasons why national unity is important in Nigeria in this present time

Give 10 solution to Nigeria security challenges

Discuss five ways of preventing the spread of Corona-virus

SS2 GEOGRAPHY

1. Those with the examination numbers 1 – 15, study the pages 12 and 13 (Nigeria physical) of the Macmillan Nigeria Secondary Atlas
2. Those with the examination numbers 16 – 30, study the pages 40 and 41 (West Africa: political and physical) of the Macmillan Nigeria Secondary Atlas
3. Those with the examination numbers 31 – 45, study the pages 52 and 53 (Africa Physical and Africa Political respectively) of the Macmillan Nigeria Secondary Atlas
4. Those with the examination numbers 46 and above, study the pages 96 and 97 (World physical), and pages 98 and 99 (World political respectively) of the Macmillan Nigeria Secondary Atlas.

SS2 BIOLOGY

Topic: Development of New seeds

Performance objectives

Introduction

Fertilization in flowering plants

Seeds

Germination of seeds

SS2 GOVERNMENT

The executive: Meaning of the executive including its composition. Types and structure of the executive. Functions of the executive. How the executive is controlled in the exercise of its functions. Reasons for the increase in power of the executive in recent time.

SS2 CHEMISTRY

In this project students are required to find out various rules that govern the nomenclature of (i) inorganic compounds and (ii) organic compounds

SS2 PHYSICS

1. Explain why a tile floor feels colder to the feet than does a rug in the same room
2. With the aid of a diagram, describe briefly the behaviour of a wire that is a directly loaded to its breaking point.

SS2 COMPUTER

1. Write on computer networking
2. With the aid of diagram draw network topologies
3. Write on network security

SS2 MATHEMATICS

Answer all questions

(1) Using graphical method. Find the solution to this set of simultaneous equation,

$$Y = 2x^2 + 9x + 10$$

$$Y = 2x + 4$$

(2) Show that the statement PV ($P \wedge Q$) is tautology or contradiction

(3) Use Venn diagram to determine the validity of this argument,

Everyone who embezzles money should be prosecuted.

Comrade Joe embezzles money

Comrade Joe should be prosecuted

SS2 FURTHER MATHS

Answer all the questions

(1) Differentiate y with respect to x in the following equations

(a) $y = 3x^4 + 3x^3 + 2x^2 + 2$

(b) $y = \frac{2x^2 + 3}{x + 1}$

(c) $y = \sin 4x^2$

(2) Given that $P = \begin{pmatrix} -1 & 1 & -1 \\ 0 & 2 & 3 \\ -2 & 3 & -3 \end{pmatrix}$

Find the determinant of the matrix above

SS3 RESEARCH TOPICS FOR FIRST TERM 2021/2022 ACADEMIC YEAR

SS3 ECONOMICS

Trace the development of industry and its positive and negative contribution to Nigerian Economy

Highlight the roles of NNPC and OPEC in the development of petroleum industry in the Nigeria Economy

SS3 AGRICULTURAL SCIENCE

Write on principles of demand and supply, explaining with graph illustrations the following sub-headings;

(i) Demand (ii) supply (iii) elasticity of supply (iv) determination of price by demand and supply (v) state the implications of demand and supply on agricultural production (vi) objectives of price control policy (vii) effects of price control policy (viii) subsidy programme features and effects

SS3 IGBO

1. Ndakorita udaume

a. Kowaa ihe ndakorita udaume putara

b. Iwu ndakorita udaume

ch. Nnupuisi iwu ndakorita udaume

2. Oloilo udaume

a. Kowaa ihe ololo udaume putara

b. Deputa ma kowaa nkewudi olilo udaume

olilo ihu, olilo azu, olilo nlocha, olilo nlofo, olilo mmako wdg ma nyekwa omumaatu ha n'otu n'otu

SS3 LIT-IN-ENGLISH

Read the play – Fences and bring out

(a) Thematic involvements raised in the work

(b) Characterizations

(c) Setting and structural arrangements

(d) The plot summary

SS3 C R S

Make research on these topic with the following guidelines

(a) Introduction (b) Bible quotation (c) body message (d) significance (e) Lessons

(1) Justification by faith

Law and grace

New life in Christ

Humility and forgiveness

Spiritual gifts

SS3 ENGLISH LANGAUGE

Read wide, research and find out the meanings features and functions of these terms

1. What is Language?

2. What do you understand by:

(a) language is systematic and structured (b) language is human specific (c) language is primarily speech

(d) language is natural (e) language varies and changes

3. List seven characteristics of language

SS3 GEOGRAPHY

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3. Those with the examination numbers 31 – 45, study the pages 52 and 53 (Africa Physical and Africa Political respectively) of the Macmillan Nigeria Secondary Atlas

4. Those with the examination numbers 46 and above, study the pages 96 and 97 (World physical), and pages 98 and 99 (World political respectively) of the Macmillan Nigeria Secondary Atlas.

SS3 CIVIC EDUCATION

Examine human rights

Characteristics and categories of human rights

Political apathy

Causes of political apathy and ways of fighting political apathy

Give 10 solutions to Nigeria security challenges

Discuss five ways of preventing the spread of Corona-virus

SS3 GOVERNMENT

The Hausa/ Fulani pre-colonial political system: Brief historical background of the Hausa/Fulani pre-colonial political system. Features of Hausa / Fulani emirate/caliphate political system. The organizational structure of the Hausa/ Fulani traditional political administration. The organs of government that existed in Hausa/Fulani traditional political system and their functions

SS3 CHEMISTRY

Hardness of water –

Meaning: causes (ions and salts involved)

Types (temporarily and permanently hardwater)

Softening of hardwater; Effects of hardness

SS3 PHYSICS

1. A piece of copper of mass 300g at a temperature of 950°C is quickly transferred to a vessel of negligible thermal capacity containing 250g of water at 25°C . If the final steady temperature of the mixture is 100°C , calculate the mass of the water that will boil away.

(Specific heat capacity of copper = $4.0 \times 10^2 \text{ J kg}^{-1} \text{ K}^{-1}$)

Specific heat capacity of water = $4.2 \times 10^3 \text{ J kg}^{-1} \text{ K}^{-1}$

Specific latent heat of vaporization of steam = $2.26 \times 10^6 \text{ J kg}^{-1}$)

2a. Explain why food can be cooked more rapidly by boiling it in salt water than boiling it in pure water

b. Explain the reason why a piece of ice at 0°C cools a drink more effectively than the same mass of cold water at 0°C

SS3 COMPUTER

1. Write on data entries and data base security

2. Write on measures to secure database

3. States the role of database administration in database security

SS3 MATHEMATICS

The marks obtained by 40 students in an examination are as follows:

85 77 87 74 77 78 79 89 85 90

78 73 86 83 91 74 84 81 83 75

77 70 81 69 75 63 76 78 61 78

69 96 65 80 84 80 77 74 88 72

(a) Copy and complete the table for the distribution using the above data.

| Class boundaries | Tally | Frequency |
|-------------------------|--------------|------------------|
| 59.5 – 64.5 | | |
| 64.5 – 69.5 | | |
| 69.5 – 74.5 | | |
| 74.5 – 79.5 | | |
| 79.5 – 84.5 | | |
| 84.5 – 89.5 | | |
| 89.5 – 94.5 | | |
| 94.5 – 99.5 | | |

(b) Draw a histogram to represent the distribution

(c) Using your histogram, estimate the modal mark

(d) If a student is chosen at random, find the probability that the student obtain a mark greater than 79.

SS3 FURTHER MATHEMATICS

To be done in your notebook

1. Find the coefficient of x^7

In the expansion of $(2 + x)^{12}$

2. Calculate the value of $(3.01)^4$ correct to 3 s.f without using tables (Binomial theorem)