

JS1 RESEARCH TOPICS FOR SECOND TERM 2019/2020 ACADEMIC YEAR

JS1 MUSIC

1. Define the staff/ stave
2. Draw a staff/ stave
3. List the musical Alphabets
4. Draw the treble stave (ii) Base stave
5. Draw 5 musical note and their shapes.

JS1 BASIC TECHNOLOGY

1. Produce a duster of the above measurement

Materials: foam, glue, wood etc Explain how the duster is produced and the type of tools used in production

2. (a) Explain lettering and its guides to good printing in a technology workshop
(b) Mention types of printing
(c) Identify method of shaping pencils

3a. Use your mathematical instrument to construct angle 45°, 60°, 90° and 75°

- (b) Explain scale and types

JS1 BUSINESS STUDIES

1a. With the aid of a diagram draw production

b. List and explain the types of production

2a. Define commerce

b. Explain the term commercial service

3. List five aids to trade

4. Differentiate between large and small office

JS1 C R S

A. Call to service

i. Meaning of service

ii. Examples of people who served in the bible, e.g-

Joseph is sold to Egypt Gen 37: 12 – 36 and Joseph's service in Egypt Gen 41: 37 – 57

The service of Ruth to her mother in-law Ruth 1: 7 – 18

B. Lessons from the service of Joseph and Ruth; life in God's service (1Peter 2: 8 – 25)

Areas we can render service e.g –

i. At home (ii) at school and (iii) at church – write the your duties or services at home, school and church.

JS1 CIVIC EDUCATION

TOPIC: Co-operation

Meaning of co-operation

Attribute of co-operation

Factors that promote co-operation

Benefits of co-operation

JS1 COMPUTER

1. Write on historical development of computers

2. List ten input and ten output devices

3. Draw and label two input devices listed above

JS1 P H E

Draw the football pitch showing correct dimensions and markings

JS1 SOCIAL STUDIES

1. Explain the need for safety
2. Enumerate safety measures that could be taken to ensure safety in homes, schools and work places

JS1 ENGLISH LANGUAGE

Write all you know about Chidi in the Reward of Truancy (Write on I page only)

JS1 AGRICULTURAL SCIENCE

In not less than four pages, write on the factors of production in agricultural .

JS1 LATIN

20 Third declension Nouns

JS1 C C A

What is paper craft and list the tools for the production of paper craft. Then product a Christmas greeting card that you can send to a family

JS1 IGBO

Dee ihe omenala gbasara “Oji n’ala Igbo

- a. Gini bu omenala?
- b. Olee ihe bu onodu oji n’ala Igbo
- ch. Deputa nsopuru a na-enyi oji n’ala Igbo
- d. Dee ihe ndi na-anochite anya oji n’ala Igbo
- e. Kowaa maka ihe oji gbara ma o bu mkpekele oji putara
- f. Olee uru di n’oji n’ala Igbo

JS1 BASIC SCIENCE

1. Copy and complete the diagram on state of matters (A – E)
2. In a tabular form differentiate between plants and animals
3. Illustrate the transformation of energy and its uses.

JS1 CAT

Write out and explain in full the twelve articles of the creed

JS1 MATHEMATICS

1. Simplify the following: $6P - 2q + 4r - 2p + 3S + 5q$
2. What is the angle between the hour hand and the minutes hand of a clock at quarter past 2?
3. A circular mat has a diameter of 20cm. Find its radius and hence calculate the area of the mat. (use the value 3.14 for π)

JS2 RESEARCH TOPICS FOR SECOND TERM 2019/2020 ACADEMIC YEAR

JS2 MUSIC

- 1i. Who composed the Nigeria National Anthem?
- ii. When was it composed?
2. List three types of scales and explain them
- 3i. The highest female voice is called _____
- ii. The lowest female voice is called _____
- iii. The highest male voice is called _____
- iv. The lowest male voice is called _____
4. Explain inhaling and exhaling
5. List some tips for good singers

JS2 BASIC TECHNOLOGY

1a. **TURNER**

Produce a turner with a wood state the best wood to be used and why

(b) Mention tools and equipment used

2. (a) Explain forging and types (b) mention forging tools with sketches (c) state and explain basic forging operation (d) explain and sketch common types of tong

3a. Explain drawing and board practice

b. Sketch the following on card board paper, frame it, for handling in the class. The heading are the common types of tongs (a) open mouth tongs (b) close mouth tongs (c) hollow bit tongs (d) square mouth tongs (e) round mouth tongs (f) pick up tongs (g) fullet tongs.

JS2 BUSINESS STUDIES

1. The following is the trial balance of urban secondary school on 31st December

2019	N
Turnover	50,000
Cost of sales	15,000
Paid rent	5000
Insurance	800
Advertising	700
Admin cost	500
Heating & lighting	1000
Sundry expenses	500

The following additional information are supplied

i. Depreciation of N1000 is to be paid

ii. Insurance of N300 was paid in advance

iii. Rent of N2000 was paid in advance

iv. Unpaid sundry expenses of N500 is to be paid

you are required to prepare profit and loss account for the year ended 31/12/019

2a. Who is a receptionist

b. Give five qualities of a receptionist

3. Differentiate between home trade and foreign trade

4. List and explain four method of buying and selling

JS2 CIVIC EDUCATION

Discuss the relationship among federal, state and local government

Differences among the three tiers of government elaborate the powers of the government

JS2 C R S

A. Miracles of Jesus

i. meaning of miracle (ii) nature miracles of Jesus e.g – Turning water into wine Jn 2: 1 – 11
calming the storm Mtt 8: 23 – 27; Mk 4: 35 – 41

Feeding of the 5000 Mtt 14: 13 – 21, Mk 6: 30 – 44, Lk 9: 10 – 17

Feeding of the 4000 Mk 8: 1 – 6

Walking on the water Mtt 14: 22 – 23, Mk 6: 45 – 52

B. Healing Miracles of Jesus

i. The centurion's servant. Mtt 8: 5 – 13, Lk 7: 1 – 10

ii. The Paralytic Mtt9: 1 – 8, Mk 2: 1 – 12

iii. The Gerasene demoniac Mk 5: 1 – 20

C. Power over death

i. Raising of the widow's son at Nain Lk 7: 11 – 17

ii. Raising of Lazarus Jn 11; 1 – 45

- D. Jesus subjects himself to civil and religious law
- i. Jesus attitude to civil and religious law Mtt 5: 17 – 20, 22: 15 – 22
 - ii. Jesus paid tax Mtt 17: 24 – 27
 - iii. Love as the supreme law Jn 13: 34 – 35, 1Cor 1; 31
 - iv. The qualities of love Lk2: 51; 1Cor 13

JS2 COMPUTER

- 1a. Define word processing (b) with the aid of diagram draw Ms Word environment
2. Write on units of storage in computer with two examples

JS2 P H E

Draw the skeletal system and label correctly

JS2 SOCIAL STUDIES

1. Explain the meaning of Religion, Explain the three types of
2. Religion in Nigeria and their teaching _

JS2 ENGLISH LANGUAGE

“Ikenna was a humble and hard working Chidi”. Relate this statement to the life of Ikenna in the Reward of Truancy (2 pages only)

JS2 AGRICULTURAL SCIENCE

In not less than four pages, write on forest and forest resources indicating the uses, effect of forest and activities that affect the forest

JS2 LATIN

30 third declension Nouns

JS2 C C A

Discuss the study of colour theory and state the uses of colour. Then make a comprehensive colour wheel of the primary and secondary colour

JS2 IGBO

Nnyocha Akwukwo

Ogugu “mkpuru onye kuru nke si n’ala Ray C. Anene

Kowaputa ihe niile gbasara akwukwo a,

a na-akpo mkpuru

onye kuru, Dee agwa ndi i maara di n’ime akwukwo a.

JS2 BASIC SCIENCE

1. Explain the meaning of potential and kinetic energy with their different formula’s
2. In a tabular form differentiate the similarities between boiling and evaporation
3. What are the factors that affect the rate of evaporation

JS2 CAT

List and explain in full the commandments of the church

JS2 MATHEMATICS

1. Five buses need 3 trips to take 450 students to the stadium to watch a concert. How many trip would 3 buses need to take the same number of students?
2. A school has 575 students 44% are boys. How many girls are in the school
3. By selling goods for N5350 a trader makes a profit of 7%. She reduces her prices to N5150. What is her percentage profit now?

JS3 RESEARCH TOPICS FOR SECOND TERM 2019/2020 ACADEMIC YEAR

JS3 MUSIC

1. Draw the face of an organ (Piano) indicating the keys with labelings
2. Draw the acoustic guitar indicating the keys, fret with labellings

3. Draw the bass guitar indicating the keys, fret with labellings

Note I: Question 1 2 and 3 must be done on the cardboard paper each

JS3 BASIC TECHNOLOGY

1a. Explain soft solder and hard solder

b. Tabulate soldering from brazing with six points

c. Sketch types of soldering bits and name its parts, State the reasons why the mentioned parts are used

2a. If the power consumed in a building is 3KW. The load are used for 70 hours in a month. If (PHCN) power holding company of Nigeria charges 12K per KWH and fixes meter charge for N3 per month. Calculate the bill for the month

(b) mention and explain electrical fitting with sketched

(c) Explain fuse and its purposes in a building

(d) State fuse rating

3a. When a resistance 8ohms is connected to battery, a current of 0.4A flows through the resistance. if the internal resistance of the battery is 2ohms. What is the EMF of the battery

(b) Mention the unit of electrical power

JS3 BUSINESS STUDIES

1. The following cash transactions were passed through the petty cash book of urban secondary school during the month

NOVEMBER: 1 received from chief cashier N20,000 imprest

NOVEMBER: 2 N3000 was paid for office cleaning

NOVEMBER: 4 N500 was paid for stamp

NOVEMBER: 5 N2000 was paid for stationery

NOVEMBER: 8 N100 was paid for office stamp

NOVEMBER: 10 N1000 was paid for office cleaning

NOVEMBER: 12 N300 was paid for pen and ink

NOVEMBER: 15 N1800 was paid for postages

NOVEMBER: 20 N200 was paid for office cleaning

NOVEMBER: 25 N100 was paid for stationery

NOVEMBER: 25 N1000 was paid for petrol

NOVEMBER: 26 N1100 was paid to Mr. paschal

NOVEMBER: 28 N200 was paid for transport

NOVEMBER: 30 N700 was paid to miss Joy

NOVEMBER: 30 N200 was paid for Diesel

You are required to prepare and balance the petty cash account for the month of November 31st, 2019.

2. List and explain four types of office equipment

3. List and explain the means of communication

JS3 C R S

A. Conversion of Cornelius

i. Peter converts Cornelius Acts 10: 1 – 48; 12: 1 – 24

ii. The significance of the conversion of Cornelius

B. Peter's Divine release and death of Herod

i. Peter's divine release and death of Herod Acts 12: 1 – 24

C. The Ministry of Apostle Paul

i. Paul's Nativity and education Acts 22: 1 – 5, 26 – 30

ii. Paul's former name, Nationality and religion

JS3 MATHEMATICS

Answer the two questions

1. In a class of 36 girls, 7 have red dresses, 3 navy blue, 10 brown and the rest have other colours. Draw a pie chart to show how the colours are

2. Simplify: $\frac{7C-2}{4} - \frac{C}{3} - \frac{5C+2}{6}$

JS3 CIVIC EDUCATION

TOPIC: Right attitude to work

Meaning of work

Meaning of attitude

Meaning of right attitude to work

Attributes of right attitude to work

Reward of right attitude to work

Consequences of not having the right attitude to work.

JS3 COMPUTER

Topic: Ms – Access and its features

JS3 P H E

a. Discuss consumer health (b) what are the agencies responsible for consumer health (c) what are responsibilities of the agencies concerned.

JS3 SOCIAL STUDIES

1. Explain the term "Harmful Traditional practices

2. Mention any five harmful traditional practices in Nigeria and analyze the consequences of these practices.

JS3 AGRICULTURAL SCIENCE

In not less than four pages, write on Child development and care.

JS3 C C A

Explain in full details what you understand by motif and the types of motif and produce a design on a white plain material (handkerchief) using any of the types of motif

JS3 ENGLISH LANGUAGE

Summarize the following books chapter by chapter

1. The milk of human kindness

2. The greedy gambler

JS3 IGBO

Nnyocha akwukwo ogugu "Uwa Ntoo" nke onye dere ya bu Goddy Onyekaonwu
Kowaputa ihe niile i maara gbasara agwa di n'ime akwukwo ogugu a.

JS3 BASIC SCIENCE

1. What are the effects of drug abuse

2. In a tabular form illustrate the resources from living things (plants and animals)

3. Write short note on this following (i) Reflection (ii) Dispersion (iii) Rainbo

SS1 RESEARCH TOPICS FOR SECOND TERM 2019/2020 ACADEMIC YEAR

SS 1 AGRICULTURAL SCIENCE

Topic: Agricultural Ecology

Contents: (i) Introduction (ii) Meaning of agro-ecology and ecosystem (iii) Components of the Agro-system – Biotic and Abiotic (iv) Ecological relationships between biotic and abiotic components of the environment (v) classifications of ecosystem

Draw A food Web

SS1 MATHEMATICS

Answer the two questions

1. Use logarithm tables to evaluate

3566 0.3892467.1

2. Simplify:

125a b 45a b

SS1 IGBO

Dee edemedede gbasara omenaala ndi a-

a. itu nzu

b. ikwo aka ututu

ch. Ibi ugwu

d. ikuputa nwa na igu aha

e. izu ahia nwa

SS1 COMPUTER

1. Components of computers:

Input devices, output devices, system unit, storage devices.

SS1 C R S

1a. What is disobedience (b) what are the consequences of disobedience

2a. Write short note on Saul's disobedience and it's consequences (b) write a summary on the topic "Parental responsibility" and its bible quotations

SS1 CIVIC EDUCATION

1. Explain the following pillars of democracy

a. Constitution (b) Arms of government (c) free press (d) political parties (e) armed forces (f) civil societies

2. State 4 reasons why high incidence of cultism constitutes a national problem

SS1 GOVERNMENT

TopicsI: Federal system of government

(i) Definition (ii) reasons for adoption of federal system of government (iii) features of a federal government (iv) merits (v) demerits

Topic I: Presidential system of government

(i) Definition (ii) features of a presidential government (iii) merits (iv) demerits

NB: Essential government for SSS by C.C. Dibia (Current Edition)

SS1 CAT

Write in details about virtues and vices

SS1 LATIN

20 Latin quotations and its English equivalent

Decline the following Adjectives

{Masc}

{fem}

{Neut}

Bonus

Bona

Bonum

SS1 ECONOMICS

Discuss precisely the channels of distribution of goods and services under the following heading

Definition

Process of distribution
The wholesaler and its function
The retailer, its features
Types and functions

SS1 BIOLOGY

Write on the topic:

Properties and functions of the living cell. Under the headline sub-heads

a. Nutrition (Autotrophic and Heterotrophic) (b) cellular respiration: Definition and processes of (i) Aerobic (ii) Anaerobic respiration (iii) energy release (c) Excretion (i) excretion in single celled aquatic organisms

diffusion by body surface and by contractile vacuole (ii) waste products of metabolism

note: please any confusion in the topic, visit West African Examination Syllabuses (page: 141)

SS1 ENGLISH LANGUAGE

1a. what is a phrase?

b. write the various kinds of phrase

c. explain the kinds of phrase with examples

2a. what is a clause?

b. write the various kinds of clause

c. explain the kinds of clause with example

SS1 PHYSICS

Answer two in all but No 3 is compulsory

1. A glass bottle full of mercury has mass 500g. On being heated through 35°C, 43g of mercury are expelled. Calculate the mass of mercury remaining in the bottle (cubic expansivity of mercury is 1.8×10^{-4} per K, linear expansivity of glass is 8.0×10^{-6} per K).

2. The above diagram illustrates a body of mass 5.0kg being pulled by a horizontal force F. If the body accelerates at 2.0m/s^2 and experiences a frictional force of 5N,

i. net force on it (ii) magnitude of F (iii) Coefficient of Kinetic friction ($g = 10\text{m/s}^2$)

3. In not more than one page describe the working principle of bimetallic strip in electric laundry iron.

SS1 GEOGRAPHY

1. Buy an Atlas (Name: Macmillan Nigeria Secondary Atlas)

2. Study the atlas and prepare for defense in second term

SS1 FURTHER MATHEMATICS

1. Rationalize the denominator of the following surdic fractions:

$$\begin{array}{l} \text{a. } \frac{3 + 5}{37 - 45} \qquad \qquad \qquad \text{(b). } \frac{5}{411} + \frac{3}{+37} \end{array}$$

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

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

SS1 CHEMISTRY

Separating techniques with well labeled diagrams.

SS1 LITERATURE-IN-ENGLISH

Find the meaning of the following concepts and make comparison on each pair below.

1. Exit and Exeunt
2. Protagonist and Antagonist
3. Prompter and Clown
4. Foreshadows and Flashback
5. Round character and flat character
6. Cast and characterization
7. Ode and Oration
8. Novella and Novelist
9. Tra-la-la and Metre
10. Run-on-line and the Blank verse

SS2 RESEARCH TOPICS FOR SECOND TERM 2019/2020 ACADEMIC YEAR

SS2 ENGLISH LANGUAGE

1. Use the following noun phrases in your own sentences and make them perform the functions indicated

	Phrase	Function
1.	The beautiful girl	(Subject)
2.	My mother	(object)
3.	Many boys	(object)
4.	The publisher of the book	(object)
5.	Single parents	(subject)
6.	The aeroplane	(Subject)
7.	The collapsed	(subject)
8.	That while building	(subject)
9.	The presumed winner of the contest	(subject)
10.	National Independence Day	(object)

2. The press club of your school is organizing a debate competition among the schools in your area as part of the activities marking the "Press Day"; as the chief speaker representing your school, write your contribution for or against the topic – 'Science and Technology' has done more harm than good! (In not less than four hundred and fifty (450) words)

SS 2 AGRICULTURAL SCIENCE

Using a cardboard paper

SS2A

Group A – 1 – 10

Draw and label a knapsacks sprayer

Group B – 11 – 20

Draw and label a watering can

Group C – 21 – 30

Draw tape worm, and a tick

Group D – 31 – 40

Draw a nutrient cycle (egg Nitrogen cycle)

Group e – 41 – 50

Draw the carbon cycle

Group G – 56 – 60

Draw the gunter's chain

Group H – 61 – 65

Draw a forest

Group 66 – 70 and above

Draw the reproductive system in mammals male or female

SS2 IGBO

Dee edemedede gbasara omenaala ndi a –

a. iru mgbede

b. ilu nwanyi na igba alukwaghim

ch. Inu iyi

d. ike ekpe na iri ekpe

e. ogbanje

SS2 COMPUTER

Write on Ms PowerPoint and the diagram of Ms PowerPoint _

SS2 C R S

1. Write a short on the first miracle of Jesus Christ and its bible quotations

2. Make short notes on the nature miracle and their bible passages

SS2 CIVIC EDUCATION

1. Explain five ways civic education can help eradicate drug addiction among youths

2. Define responsible parenthood, Explain 4 importance of responsible parenthood to national development

3. Highlight five relevance of power sharing among the three tiers of government in Nigeria

SS2 CHEMISTRY

Chemical Equilibrium

SS2 GOVERNMENT

Topic:

1. The local government - meaning

i. Meaning (ii) purposes or reasons for creating local governments (iii) functions of local governments (iv) sources of revenue of local governments (v) control of local governments (vi) problems of local governments in Nigeria

Ref: Government for SSS by C.C. Dibia (Current Edition)_

SS2 ECONOMICS

Labour market is very vital for the survival of any economy. Examine this statement by looking at the labour market wholestically

SS2 BIOLOGY

Topic: Tissues and supporting system

Discuss it on the following

a. (i) Biological significance (ii) skeletal materials, eg bone, cartilage and chitin (iii) types of skeleton (iv) bones of vertebral column (v) mechanism of support in animals (vi) functions of skeleton in animals

b. Different types of supporting tissues in plants (i) main features of supporting tissues in plants (ii) functions of supporting tissues in plants

note: please any confusion in the topic, visit West African Examination Syllabuses (page: 143 - 144) diagram is very necessary.

SS2 PHYSICS

Answer questions in all No 3 Compulsory

1. A plank AB 3.0M long weighing 20kg and with its center of gravity 2.0m from the end A carries a load of mass 10kg at the end A. it rests on two supports at C and D as shown below

(i) Compute the values of the reaction forces R_1 and R_2 at C and D

2. A tractor of mass 5.0×10^3 kg is used to tow a car of mass 2.5×10^3 kg. The tractor moved with a speed of 3.0m/s just before the towing rope became taut. Calculate: (i) speed of the tractor immediately the rope becomes taut (ii) loss kinetic energy of the system just after the car has started moving (iii) impulse in the rope when it Jertus car into motion

3. In not more than one page describe the action of Jet and rocket propulsion as applied in “Newton third law of motion”

SS2 GEOGRAPHY

1. Buy an Atlas (Name: Macmillan Nigeria Secondary Atlas)

2. Study the atlas and prepare for defense in second term

SS2 MATHEMATICS

1. Leave unshaded the region that satisfies these inequalities

a. $x + y < 6$; $Y \leq x + 4$ and $y \geq -1$

b. $2x + 5y \leq 20$; $y > 3x$ and $x \geq -2$

2. Draw the truth table of the conclusion $(CP \Rightarrow Q) \wedge (Q \Rightarrow R) \Rightarrow (P \Rightarrow R)$

SS2 FURTHER MATHEMATICS

1. $\int_2^5 \frac{3x^2 - 6x}{5} dx$ Evaluate the fraction

2. A particle is projected with an initial speed of $45MS^{-1}$ at an angle of 35° to the horizontal. Find the time it takes for the particle to: (a) reach the highest level (b) to return to its original level.

SS2 LITERATURE-IN-ENGLISH

Find the meaning of the following concepts and make comparison on each pair below.

1. Rhythm and Rhyme
2. Litotes and Hyperbole
3. Personification and Apostrophe

4. Synecdoche and Metonymy
5. Conflict and Theme
6. Ballad and Limerick
7. Illusion and Allusion
8. Sarcasm and Lampoon
9. Dirge and Elegy
10. Critique and point of view
11. Poetic licence and Diction
12. Enjambment and Repetition
13. Trochaic metre and Iambic Metre

JS1 FRENCH

1. Using your English / French dictionary or internet write ten domestic animals in French
2. Draw any four of them

JS2 FRENCH

1. Using your English / French dictionary or internet list any 20 verbs example

Jouer – To play

Danser – To dance

2. Draw any four places you like

Example: market, hospital, etc

JS3 FRENCH

1. Using your English / French dictionary list any 20 daily verbs in English and French

Example: Laver – To wash

Se brosser Les dents – To brush teeth

2. Write a composition about your country (Mon pays)