

RESEARCH TOPICS FOR FIRST TERM 2019/2020 ACADEMIC YEAR

JS1 BASIC TECHNOLOGY

- 1a. Explain basic technology as it relates to technology in a present day system (b) Mention the importance of basic technology
- 2a. Explain economics activities in technology and its classifications (b) Mention the advantages over technology
3. Visit any workshop of engineering to state the followings (a) Workshop layout and types (b) Explain workshop and sketch a workshop bench.

JS1 P H E

Define Physical Education

Discuss the benefits of physical education

JS1 CCA

1. Explain the meaning of art and discuss its origin and importance to the society
2. Draw and paint a building

JS1 COMPUTER

Discuss the concept of computer system

Discuss data representation

JS1 MUSIC

- 1a. What is music
- b. What is notation?
- 2a. List the elements / fundamentals of music
 - bi. Explain the flat sign
 - ii. Explain sharp sign
 - iii. Explain the natural sign
- 3a. Define Harmony
- b. What is a triad

JS1 IGBO

Ihe gbasara Agwa oma na agwa ojoo

- (a) Gini bu Agwa?
- (b) Olee ndi bu Agwa oma?
- (ch) Ole ndi bu Agwa ojoo?
- (d) Gini na-akpata Agwa oma na agwa ojoo?
- (e) Kedu ihe a ga-eme ka agwa ojoo kwusi?

JS1 AGRICULTURAL SCIENCE

Write on the classes and uses of farm animals in not less than four pages

JS1 CIVIC EDUCATION

Write on the following

1. Meaning of civic education
2. Objectives of civic education
3. The importance of civic education
4. The need for civic education
5. Different ways of learning civic education

JS1 ENGLISH LANGUAGE

In not more than one page of four foolscap sheet summarize the story in the novel you read

JS1 C R S

Topic: Disobedience

- (i) Meaning of disobedience
- (ii) Biblical account of first human disobedience (Gen. 3:1 – 9)
- (iii) Consequences of Adam and Eve's disobedience including the serpent (Gen 3: 3: 14 – 19)
- (iv) Learners disobedience and consequences
- (v) Disobedience against national laws and the consequences

JS1 MATHEMATICS

1. Find the H.C.F of the following. Leave your answer as prime factors. Use index notation

(a) $2^3 \times 3^2 \times 7$, $2^2 \times 3 \times 5^2$, $2^2 \times 3^3 \times 5$

2a. Write down three common multiples of the following sets of number 2, 3 and 5

2b. Find the L.C.M of the following 6, 8 and 10

3. Add the following

h min s

1 34 28

45 50

-

3b. Express 4mins as a fraction of 1 hour.

JS1 SOCIAL STUDIES

1. What is culture

2. Explain the features of culture

3. Explain cultural differences in Nigeria in regards to (i) the belief (ii) migration (iii) interaction (iv) arts, enjoyment and recreation

JS1 FRENCH

1. Name the neighbouring countries of Nigeria and their official languages and capital territorial's

2. Write four reasons why French language should be studied in Nigeria even though the country is an English speaking country

JS1 CAT

1. Write in a very short form the story of creation

2. Write out the mysteries of the Rosary in Igbo and English _

JS1 BUSINESS STUDIES

1. Draw organizational chart and label it

2a. Who is a clerk

2b. State two functions of a clerical staff

2c. What is labour as a factor of production?

2d. Mention the types of labour we have

JS1 BASIC SCIENCE

1. Meaning of Drug Abuse
2. Causes of air, soil and water pollution
3. Importance and methods of environmental sanitation

JS1 LATIN

1. Write 30 Latin quotations
- . Write out 40 Latin nouns

JS2 RESEARCH TOPICS FOR FIRST TERM 2019/2020 ACADEMIC YEAR

JS2 BASIC TECHNOLOGY

1a. Explain wood as material processing on the followings (a) conversion and method (b) seasoning and types with sketches, reason for seasoning

1b. Explain moisture content

1c. Mention the defects in wood and its classes with sketches

2. Produce a duster with the followings:

(a) A rectangular wood of 50 x 30mm (b) Neat piece of foam (c) Super glue

Note all will help you produce a nice duster for use in the chalkboard

In your project of the above, write out the sequence of production

List the most considerable things used.

JS2 P H E

Human trafficking is a problem

Discuss this under (1) definition (2) causes of human trafficking (3) possible solutions

JS2 CCA

Produce a beaded work of necklace, bangle and earring or Produce a beautiful mosaic picture of a butterfly or a rabbit that can serves as a wall hanging

JS2 COMPUTER

1. Write on computer hardware and software with a good diagram on them ut 40 Latin nouns

2. Write on desktop management

JS2 MUSIC

1a. Explain the origin of Music

b. List the sources of sound and explain them

2a. Explain Rhythm

b. List some popular music and the composers

JS2 IGBO

Omenala Igbo

(a) Gini bu Oji?

(b) Olee nsopuru a na-enye Oji?

(ch) Kowaa uru Oji bara

(d) Deputa nkowa ihe ibe Oji gbara n'ala Igbo

(e) Olee ihe ndi na-anochite anya Oji n'ala Igbo

JS2 AGRICULTURAL SCIENCE

In not less than four pages write on crop propagation and cultural practices

JS2 CIVIC EDUCATION

1. Meaning of integrity

2. Attributes of integrity

3. Examples of people of integrity in our society

4. Need for people of integrity in society

5. Consequences of lack of integrity

JS2 ENGLISH LANGUAGE

Summarize the story in the novel. The Reward of Truancy

NB: Your work should not be more than one page of your foolscap sheet.

JS2 SOCIAL STUDIES

1. Define the term 'Drug Abuse'
2. Mention ways of preventing drug abuse
3. Explain the consequences of drug abuse on the individual and the nation

JS2 C R S

Topic: (i) Temptations of Jesus Mk 4:1 – 11, 12 – 13, Lk 1 – 13 Lk 4. 1 – 13

(ii) Significance of the temptation of Jesus

(iii) Temptation in Nigeria today and ways of overcoming tem

Topic: (2) The call of the disciples

(i) Jesus calls first four disciples Mtt 4: 18 – 22 , Mk 1 : 14 – 20 ; Lk 5 : 1 – 11

(ii) Jesus calls the twelve Apostles Mk 3 : 12 – 19

(iii) The demand of discipleship Mtt 8 : 18 – 27, Lk 9 : 57 – 63 , 14 : 25 – 33

JS2 MATHEMATICS

1. A father shared N2500 among his children in the ratio 2:5:3. Find each child's share

2. Write the prime numbers between 21 and 56 inclusive

2b. Express 1 in standard form

$$9.5 \times 10^{-5}$$

3a. Express 362 as a product of prime factors in index form

3b. Show that 15 is not a prime number.

JS2 FRENCH

1. Using your English/French bilingual dictionary or interest list 20 descriptive adjectives in French

Example; Obedient – obeissant

Generous – genereux

2. Using your French text book initiation pratique make a list of 15 countries and their citizens

Example

Masculin	Feminine
Le Nigeria – Nigeria	nigeriane
La France – francais	Franscaise

JS2 CAT

List and memorize the Ten Commandments and the commandments of the church

JS2 BUSINESS STUDIES

1a. What is shorthand

1b. What is vowel, 12 vowels are divided into three position shorthand outlines name them.

1c. What is consonant , what is the difference between overdraft and loan

Difference between crossed cheque and open cheque

2. What is bank recapitalization

JS2 BASIC SCIENCE

1. Definition of Ecology: Biotic and Abiotic factors

2. Relationships between organisms with same habitat and what they have in common

3. Meaning and classification of chemicals based on their uses – pharmaceutical/ cosmetic, nuclear, agrochemical e.t.c

JS2 LATIN

1. Give out 100 English words gotten from Latin

JS3 RESEARCH TOPICS FOR FIRST TERM 2019/2020 ACADEMIC YEAR

JS3 BASIC TECHNOLOGY

1a. Explain electric circuit and its components (b) Mention with sketches a closed and open electric circuit (c) State the list of electric circuit breaker (d) sketch a circuit

2. In your home project, on simple electrical connection, Reproduce the drawing before explaining the followings (a) State tools and materials used (b) Use a board in wiring this topic.

JS3 P H E

Nigeria sports heroes

JS3 CCA

Using a paper craft production, construct or build a house

JS3 COMPUTER

Microsoft Excel

Getting started with Ms. EXCEL 2007

Excel 2007 basics

Worksheet layout and management

Advance formatting

Prepard out

JS3 MUSIC

1. List 8 uses of music and explain them
2. Write on impact of music to the society
3. What is note?
4. Write a short on rhythm
5. Give example of them each.

JS3 IGBO

Omume umuakwukwo ugbu a

(a) Gini na-ebuta ajo omume ufodu umuaka na-eme ugbu a?

(b) Deputa omume ise jogburu onwe ya ha na-eme

(ch) Olee otu a ga-esi akwusi omume ndi a ?

JS3 AGRICULTURAL SCIENCE

Write on records and book keeping in not less than four pages.

JS3 ENGLISH LANGUAGE

1. What is letter writing
2. Write and define the various types of letters
3. Explain these various kinds of essay writing
 - a. Narrative essay
 - b. Description essay
 - c. Argumentative essay
 - d. Expository essay
4. What do you understand by figures of speech?
Write ten (10) figures of speech with examples

JS3 CIVIC EDUCATION

1. Social issues
2. Meaning of constitution
3. Types of constitution
4. Importance of constitution _

JS3 MATHEMATICS

A school in Anambra entered candidates from 2007 to 2011 for JSCE. The results for the years given in the table below.

Year	2007	2008	2009	2010	2011
No. of candidates	86	93	102	117	116
No. gaining JSCE pass	51	56	57	65	70

- (a) Find the schools success rate as a percentage
- (b) What is the approximate probability of a student at the school getting a JSCE pass?

JS3 C R S

- (1) Topic: Persecution of the Early Believers
 - (i) Arrest of Peter and John Acts 4: 1 – 31
 - (ii) Reasons for their arrest

(iii) Arrest and martyrdom of Stephen Acts 6: 8 – 15 ; 7: 1 – 60

(iv) Summarize Stephen's defence

JS3 SOCIAL STUDIES

1. Define Human Trafficking
2. Explain the factors that encourage trafficking in women and children
3. Identify (5) ways of preventing human trafficking

JS3 FRENCH

1. Conjugate the following verbs in French / present tense

etre – To be

Avoir – To have

Aller – To go

Faire – To do

2. Make a list of ten items that could be found in the house all in French

JS3 BUSINESS STUDIES

A retailer bought the following items for sale

1. 200 bags of rice at N9500 each
2. 250 tins of cooking oil at 2,500 each
3. 10 refrigerators at 60,000 each with 5% discount allowed by seller

Determine the amount to be paid by the retailer, show your work

2. Mr. Emma bought the following goods from Mr. Emeka with 40% cash discount each

Milk 500.00

Bournvita 500.00

One carton of Omo N1000.00

One bag of rice 3000

One carton of soap 200

One carton of biscuit 1000, how much will Mr. Emma pay, show your work

3a. What is advertising

3b. List (15) fifteen advertising media you know

3c. Write 5 advantages and 5 disadvantages of advertising

JS3 BASIC SCIENCE

1. Meaning of dominant and recessive traits importance of family traits

2. What is deforestation: Reasons for deforestation

3. Depletion of Ozone layer and its effects

SS1 RESEARCH TOPICS FOR FIRST TERM 2019/2020 ACADEMIC YEAR

SS1 GOVERNMENT

(1) Democracy (i) meaning (ii) main features of democracy

(2) Political culture (i) meaning (ii) components of political culture

(3) Political socialization (i) meaning (ii) agent of political socialization

NB: (1) Do this research in your government notebook

(2) You must buy a copy of the government textbook - essential government for senior sec schools by C.C Dibia (Current ed)

SS1 CHEMISTRY

Industries in Nigeria and raw-materials used

SS1 COMPUTER

Information age

History of computer

Concept of number system in computer

Generations of computer

First, second, third, fourth and fifth generations of computer

Data and information

Definition of data and information

Types of data

Ways of handling data

Definition of data

Digitalization

Basic computing

Classification of computer base on

Types size and operation

SS1 AGRICULTURAL SCIENCE

Question: Discuss the husbandry of (i) oryza sativa, manihot spp, and vigna unguisculata under the following headings: (i) common name (ii) processing (iii) pests (iv) diseases (v) uses

Note: Good arrangement and neat works attracts full mark

SS1 IGBO

(a) Deputa ihe bu ahiriokwu

(b) Deputa udi ahiriokwu di iche iche e nwere n'Igbo ma were omumaatu ise ise gosiputa ha n'otu n'otu

SS1 C R S

1. What is sovereignty of God?

2i. What is leadership?

ii. Write short note on the following leaders (a) Joseph (b) Moses (c) Joshua (d) Deborah

SS1 CIVIC EDUCATION

Define Civic Education

Objective of civic education

Meaning of values and types of value

Meaning of HIV/AIDS, methods of transmission of HIV/AIDS, its symptoms

SS1 GEOGRAPHY

Discuss Mars as a Planet

SS1 CAT

Write in full the Sacraments of the church

SS1 FURTHER MATHEMATICS

The research should be done in your note book

1a. Given that $A = \begin{pmatrix} 2 & 1 & 0 \\ 1 & 2 & 1 \\ 3 & 4 & 1 \end{pmatrix}$

$$\begin{pmatrix} 2 & 1 & 0 \\ 1 & 2 & 1 \\ 3 & 4 & 1 \end{pmatrix}$$

$$\begin{pmatrix} 2 & 1 & 0 \\ 1 & 2 & 1 \\ 3 & 4 & 1 \end{pmatrix}$$

b. Find the determinant of A

c. Find A^{-1}

SS1 ENGLISH LANGUAGE

1. What do you understand by the term "parts of speech".
2. Write and explain the various parts of speech and their functions in English language
3. What is letter writing
4. Write and define the various types of letter writing

SS1 MATHEMATICS

1. Solve the inequalities

$$\frac{5}{3} < x < \frac{1}{5} - \frac{1}{2} \leq x < \frac{1}{2} \leq x < 8 + x$$

$$\frac{5}{3} < x < \frac{1}{5} - \frac{1}{2} \leq x < \frac{1}{2} \leq x < 8 + x$$

. The table below shows the number of students scoring a given mark in a test

Students	2	3	4	5	6	7	8	9	10	11	12
Marks	3	8	7	10	13	16	15	15	6	2	5

Find (a) The mean (b) The mode (c) The median

SS1 BIOLOGY

Topic: Classification of living things into kingdoms, monera, protocista (protista), fungi, plantae, animalia. With examples of organisms and their characteristics.

SS1 ECONOMICS

Examine the meaning / definition of economics as stated by different scholars of economics, its scope and nature

Identify Basic concepts of economics and write briefly, explain them

Why is economics important in once life

SS1 LITERATURE-IN-ENGLISH

Critically look into the world of literature and bring out the bases for writing literary works (cite at least three works you have read to support your claims)

SS1 LATIN

1. Give 50 Latin quotations
2. Write out 30 phrases in Latin

SS1 PHYSICS

1. The diagram below represents a portion of a vernier caliper. What is its reading?
2. The speed of a bus increases uniformly from 15mS^{-1} to 60MS^{-1} , in 20 seconds. Calculate
 - a. the average
 - b. the acceleration
 - c. the distance travelled during the retried

SS2 RESEARCH TOPICS FOR FIRST TERM 2019/2020 ACADEMIC YEAR

SS2 GOVERNMENT

Topic: (1) Pressure groups

- (a) Definition (b) types of pressure groups (c) modes of operation (d) functions
- (2) Political Parties (a) definition (b) functions (c) organization of political parties (d) types of polilitcal parties _

SS2 ENGLISH LANGAUGE

Comprehension

1. Read these passages and answer all the questions on them

Topics: A – Our distant relative, “The Whale” Page 250 (intensive English for SS two)

B - Choosing a career (page 266 of intensive)

C – passage 1 (section 1) on page 280 of intensive English

Summary writing

Read these passages and answer all the summary questions on them

1. "The housing problem in Nigeria" on page 194 – page 197
2. The Verdict on page 149 (summary questions on page 152)
3. The Black Dog on pages 132, 133, 134, 135, 136 and summary questions on page 137 (9. 2. 4) questions 1 and 2.

SS2 CHEMISTRY

Oxidation reduction (REDOX) reactions and oxidation number of elements

SS2 COMPUTER

Write on spread sheet application

Discussing on the following

(i) Definition (ii) uses (iii) Examples of spreadsheet applications (iv) make a good diagram on the background of M.S Excel

SS2 AGRICULTURAL SCIENCE

Question: Prepare an album of forage plants (a) 7 grasses (b) 5 legumes (c) 4 other herbage

Note: Give their common names and botanical names

Please arrange your work very well.

SS2 IGBO

Deputa nkowa na omumaatu ise atumatuokwu na okwu nka ndi a

- (a) Uraokwu (pun)
- (b) Ekwuwcheozo (irony)
- (ch) Egbeokwu (hyperbole)
- (d) Ajujuzaraonwe (rhetorical question)
- (e) Igbuduokwu (paradox)
- (f) Ilu (proverb)
- (g) Akpaalaokwu (Idioms)

(gb) Ukabulu (parable)

(gh) Ainulu (wellerisms)

SS2 C R S

1. What is Baptism, Temptation?
2. List and write short note on Jesus temptations
- 3i. What is discipleship?
- ii. Who is a disciple?

SS2 CIVIC EDUCATION

Meaning of citizenship education, importance of citizenship education

Fundamental issues in citizenship education

Obligations and duties of citizens

SS2 FURTHER MATHEMATICS

The research should be done in your note book

1. From first principles , find the derivative of

$$Y = 3 \text{ QUOTE} \quad 3 + 5 \text{ QUOTE} \quad +7$$

2. Find the QUOTE of $y = \text{QUOTE}$

SS2 MATHEMATICS

A

D

B

C

S

63⁰

Find the value of QUOTE

SS2 BIOLOGY

Topic: Habitat

(A) Aquatic habitat marine, Estuarine, fresh water, should be discussed under the following headings:

- (i) Characteristics of habitat
- (ii) Distribution of plants and animals in the habitat
- (iii) Adaptive features of plants and animals in the habitat

(B) Terrestrial habitat: marsh, forest, grass land, arid land should be studied under the following headings:

- (i) Characteristics of habitats
- (ii) Distribution of plants and animals in habitat

SS2 ECONOMICS

Critically X – ray the concept “Production Possibility Curve (PPC)

SS2 GEOGRAPHY

Topic: Write on Agriculture, Lumbering and fishing in Nigeria

SS2 LITERATURE-IN-ENGLISH

Using Africa as a measurement and class separation as a factor, examine the conscience of the writer in the book Second Class Citizen

SS2 PHYSICS

1. Four forces at as shown in figure below. Calculate their resultant
2. A mango fruit drops to the ground from – the top of its tree which is 5m high. How long does it take to reach the ground?

SS3 RESEARCH TOPICS FOR FIRST TERM 2019/2020 ACADEMIC YEAR

SS3 GOVERNMENT

Topic: (1) Pre-colonial administration in Nigeria/ West Africa

(a) Introduction (b) The Igbo political system (Nccp 222) (c) Structural organization of the Igbo political system (pp222-223) (d) features of the Igbo political societies (Nccp 224)

SS3 ENGLISH LANGAUGE

Comprehension

1. Read these passages and answer all the questions on them

Topics: A – Our distant relative, “The Whale” Page 250 (intensive English for SS two)

B - Choosing a career (page 266 of intensive)

C – passage 1 (section 1) on page 280 of intensive English

Summary writing

Read these passages and answer all the summary questions on them

1. “The housing problem in Nigeria” on page 194 – page 197

2. The Verdict on page 149 (summary questions on page 152)

3. The Black Dog on pages 132, 133, 134, 135, 136 and summary questions on page 137 (9. 2. 4) questions 1 and 2.

SS3 CHEMISTRY

Chemical Equilibrium

SS3 COMPUTER

Write on graphic packages discussing on the following (i) definition (ii) uses of graphic ware packages

(iii) Examples of graphic packages (iv) make a good diagram on the background of corel draw

SS3 IGBO

Edemede – dee edemede opekata mpe ihu akwukwo ato kowara ilu a – “Nwata a kwo n’azu amaghi na ije di anya”.

SS3 C R S

1. What is faith?

2. Write short story that centers on faith from the bible and its quotation

3i. What is work?

ii. :Faith without work is dead" explain and give its bible quotation

SS3 FURTHER MATHEMATICS

To be done in your notebook

1. Find the coefficient of x^7 in the expansion of $(2 + x)^{12}$

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)

SS3 BIOLOGY

(1) Discuss excretion in single – celled aquatic organisms. Diffusion by body surface and by contractile vacuole

(2) Waste products of metabolism

SS3 ECONOMICS

Wholesically examine the concept "Elementary theory of income determination"

SS3 MATHEMATICS

1. When the expression $Px^2 + Qx + 1$ is divided by $x - 1$ it has a remainder of 2 and when divided by

$x + 1$ it has a remainder of 4 find P and Q

2. P and Q are two points on latitude 55°N and their longitudes are 33°W and 23°E , respectively. Calculate the distance between P and Q measured along

a. The parallel of latitude

b. The great circle (Take $\pi = \frac{22}{7}$) and radius of the earth = 6400/TM)

SS3 GEOGRAPHY

Topic: Write on world settlements under the following headings:

1. Definition and favourable conditions for sitting a settlement

2. Classification of settlement according to types

3. Classification of settlement according to pattern or shape

4. Classification of settlement according to size

5. Classification of settlement according to function

SS3 PHYSICS

1. With the aid of a well labeled diagrams list and explain the various ways in which electricity can be generated and distributed

2. List differ

SS3 LITERATURE-IN-ENGLISH

Examine critically the roles of Mrs. Hardcastle on Tony Lumpkin thereby creating the moral decadence in the character of Lumpkins. Support your claims with textual reference

2019

FIRST TERM RESEARCH TOPIC FOR JS 1 2018/2019 SESSION

JS1 COMPUTER

Write out the futures of operating system and explain

JS1 BASIC TECHNOLOGY

- a. What are drawing instruments and materials
- b. Demonstrate the steps involved in setting a drawing paper on a drawing board
- c. State the care of 5 drawing instruments

JS1 BASIC SCIENCE

1. With the help of diagram illustrate the states of matters
2. In a tabular form differentiate between plants and animals, considering the characteristics of livingthings
- 3a. Forms of energy (i) solar energy and (ii) mechanical energy
- 3b. Write short note on this following forms of energy (i)

JS1 PHE

What is recreation?

List 10 recreational activities you know

JS1 IGBO

Dee maka Akaoru ndi Igbo

- a. Gini bu akaoru?
- b. Udi akaoru di iche iche
- ch. Akaoru maka umu nwanyi
- d. Akaoru maka umu nwoke
- e. Olee uru di n'akaoru
- f. Olee akaoru maka nwoke na nwanyi

JS1 CIVIC EDUCATION

- (i) Meaning of co-operation
- (ii) Attributes of co-operation
- (iii) Factors that promote co-operation

(iv) Benefits of co-operation

JS1 AGRICULTURAL SCIENCE

In not less than four pages write on methods of weeds and pest control _

JS1 LATIN

(1) Write 25 Latin quotations

(2) Write out 10 Latin phrases and make 5 sentences with each of them.

JS1 C C A

1a. What is paper craft and list the materials involved for a paper craft

b. Produce a paper craft production in any of the following

1. Christmas greeting card

2. A colourful kite

JS1 MUSIC

1i What is a staff or staff? (1i) Define Clef, and they types of clef with examples

2i Draw a treble staff, and also a Bass staff (iia) What is a Note? (b) In a tabular form list the musical notes, with their shapes, Rest and Time value

3. What are the guide lines in constructing a scale of G major

JS1 BUSINESS STUDIES

1. Explain the meaning of truthfulness (2) List three attributes of truthfulness (3) State two rewards for truthfulness (4) State four consequences of not being truthfulness (5) Explain the meaning of fair play

(6) Describe three examples of acts of fair play (7) State the attributes of fair play.

JS1 ENGLISH LANGAUGE

(1) Write 30 verbs with their past and past participle tenses

JS1 C R S

(1) Call to service

Meaning of service

Examples of people who served in the Bible – E.g Joseph is sold to Egypt Gen 37 : 12 – 36

Joseph's service in Egypt Gen 41 : 37 – 57

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

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

Areas we can render service

JS1 FRENCH

Using your English / French dictionary or internet

(1) Write ten things one could see in the class room example Un tableau blanc – A white board

(II) Also write ten things one could buy in the market example – Un vetement – A cloth

(III) Draw and label any two things one could see in the house _

JS1 CAT

Article six to twelfth of the catechism book

JS1 MATHEMATICS

(1) Calculate the perimeter of a circle of radius 70m (use the value $3\frac{1}{7}$ for pie)

(2) The sport field shown below has a 90m by 70m football field with a semi-circular

70m

90m

Use the value of $\frac{22}{7}$ for π

- (a) The area of the sports field
- (b) The length of one

lap of the track

(3a) Remove bracket and simplify $(3a + 5b) - (7a + 10b)$

(3b) Simplify $\frac{48x^2y}{12xy}$

JS1 SOCIAL STUDIES

(a) Meaning of socialization

(b) Explain the agents of socialization example family, school, Religious organization, peer group, and press

Research questions for 2018/2019 academic year JSS2

JS2 COMPUTER

1. What is a programming language
2. And the futures of programming language

JS2 BASIC TECHNOLOGY

Wood work machines

- a. Draw and explain 5 woodwork machines
- b. State 7 care and maintenance of woodwork

JS2 BASIC SCIENCE

1. Meaning of potential energy and kinetic energy with different formula's
2. Differences and similarities between boiling and evaporation
3. What are the factors affecting rate of evaporation

JS2 PHE

Draw and label

Human skeletal system

JS2 IGBO

Ubiam na Aguu

- a. Gini bu ubiam na aguu?
- b. Gini na-ebute ubiam na aguu?

Ch. Olee ihe a ga-eme ka ubiam na aguu kwusi n'ala Najjiria

JS2 CIVIC EDUCATION

Rule of law

- (i) Meaning of law
- (ii) The benefits of the rule of law as against arbitrary law (iii) Punishment for breaking the law
- (iv) Offences for which individuals can be found guilty and punished (v) Equality of all citizens before the law

JS2 AGRICULTURAL SCIENCE

In not less than four pages, write on forest and forest resources

JS2 LATIN

(1) Write 50 Latin quotations

(2) Write out 10 Latin phrases

JS2 C C A

1a. What is colour?

b. State the uses of colour

2. Draw and paint the composition of bread, teacup and a flask

JS2 MUSIC

1i. Draw the Nigeria National Anthem on a staff with the key F major time value 4/4, also the words below it and the solfa notes on top of the staff of each line (ii) Define heptatonic scale, hexatonic scale, pentatonic scale with an example of them each

2i. List and explain the 5 different types of singing / performances (ii) What is inhaling and exhaling

JS2 BUSINESS STUDIES

1. What is a bank? (2) Define a commercial bank (3) Mention five services rendered by commercial banks (4) How do you open current account (5) What are the two ways by which a customer can borrow money from a bank

JS2 ENGLISH LANGAUGE

Write on two pages of four foolscap sheet, "How I spent my Christmas Holiday".

JS2 C R S

(1) The parable about our attitude to earthly possessions

The rich fool Lk 12 : 13 – 31,

The rich man and Lazarus Lk 16 : 19 – 31,

Maturity and responsibility – The ten Virgins Mtt 25:1 – 13,

The talents Mtt 25 : 14 – 30

Unforgiving steward Mtt 18 : 21 – 35

(2) The miracles of Jesus

Meaning of miracle

Nature miracle 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 4,000 Mk 8 : 1 – 6, walking on the water Mtt 14 : 22 – 23, Mk 6 : 45 – 52.

(3) Healing miracles of Jesus

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

The paralytic Mtt 9 : 1 – 8, Mk 2 : 1 – 12

The Gadareness demonical Mk 5 : 1 – 20

Power over death – raising of the widow's son at Nain Lk 7 : 11 – 17, Raising of Lazarus Jn 11 : 1 – 45

JS2 FRENCH

Using your English / French dictionary or internet

(I) Write ten things one could see in a big city like Abuja

(II) Write twenty verbs and their meaning in English ex parler – To speak

(III) Draw and label the parts of the body in French

JS2 CAT

The true teaching of the church on the following sacraments:

Confession

Holy communion

JS2 MATHEMATICS

JS3 COMPUTER

Getting started with Access 2007

JS3 IGBO

Nnyocha Akwukwo

Nnyocha akwukwo a na-akpo “Mkpuru onye kuru n’uwa”.

a. Onye dere ya?

b. Olee ndi biputara ya?

Ch. Koo ihe niile i maara gbasara akwukwo ahu.

JS3 CIVIC EDUCATION

Right attitude to work

(i) Meaning of work

(ii) Attributes of right attitude to work (iii) Reward or importance of right attitude to work

(iv) Consequences of not having the right attitude to work.

JS3 AGRICULTURAL SCIENCE

In not less than four pages write on child development and care indicating the factors that influence child development

JS3 C C A

1a. What is a design?

b. What is the impact of a good packaging design on the audience

2. Make and design a pack for cornflakes.

JS3 MUSIC

1. Write the solfa notation of the Nigerian National Anthem. With its key, bars, and time value

2i. Make a research on keyboard(orge), Bass Guiter and lead guiter

ii. Also its procedures in learning or playing it.

JS3 BUSINESS STUDIES

1. What is a voucher

2. Write (5) five things that contain when preparing a voucher

3. What is a business letter

If a man earn N600,000 per annum and pays N30,000 as tax per annum and also pays N100 monthly as union dues and his employers deduct N3000 and N1000 respectively for car loan and furniture loan monthly, his net pay will be calculated as?

(a) Mr. Aka bought goods worth N350 and sold them for N505, he incurred expenses of N27.50 what is his gross profit and net profit?

(b) Ikenna bought goods at the cost of N1000 and paid N100 to transport them to his stall, he sold the goods for N1,500 work it out.

JS3 C R S

(1) The ministry of Peter

Peter and Simon the magician Acts 8 : 14 – 25

Peter's miraculous Activities – Healing of Aeneas in Lydda, Peter raised Dorcas to life Acts 9 : 36 – 43, conversion of Cornelius – Acts 10 : 1 – 48, 12 : 1 – 24, The significance of the conversion of Cornelius.

JS3 FRENCH

Using your English / French dictionary or internet

(I) Write ten things one could see in the school compound

(II) Conjugate the verb sortir in passé composé

(III) Conjugate the verb prier in passé composé

(IV) Write a composition about your country in not less than 15 sentences.

JS3 ENGLISH LANGAUGE

(1) What is poetry? Outline the features of poetry

(2) Define drama and write the features of drama

(3) Write the punctuation marks in English and show examples of how each of them are used.

JS3 SOCIAL STUDIES

(a) Meaning of harmful traditional practices

(b) Write note on the following harmful practices (i) Female circumcision (ii) Early marriage (ii) Gender discrimination (iii) Osu caste system (iv) Child agric labour (v) Use of children for begging

Research questions for 2018/2019 academic year SS1

SS1 CHEMISTRY

TOPIC: Separation Techniques for mixtures

SS1 C R S

Make a note on the following bible quotations with a topic

a. I Samuel 2 Vs 11 – 36, 3 Vs 1 – 18, 4 Vs 10 – 22, 8 Vs 1 – 5

b. Consequence of Saul's disobedience

I Samuel 15 Vs 1 – 16, 16 Vs 14 – 23, 31 Vs 1 – 13

SS1 ECONOMICS

Discuss demand under the following headings

Definition

Determination of market Equilibrium

Factors affecting demand

Types of demand

SS1 GOVERNMENT

TOPIC: (1) Totalitarianism – Definition and characteristics (2) Nazism – Definition and characteristics. Ref: Essential Govt for SSS by C.C. Dibia (Newest edition).

SS1 CIVIC EDUCATION

Discuss the 3 arms of government – the Executive, legislature and judiciary

What is Nationalism?

Examine extreme and ethnic nationalism

Define rule of law

Benefits of rule of law

Limitations of rule of law

SS1 IGBO

Site n’ime akwukwo ejije “NKE M JI KA” Guo ma chikotara m

Malite (1) n’Emume nke mbu nkiri nke mbu

2. Emume nke mbu

Nkiri nke abuo

3. Emume nke mbu

Nkiri nke ato

SS1 BIOLOGY

TOPIC: Animal Nutrition

Sub-topic: (1) Food substance

Sources

Classes (with example)

(2) The concept of a balance diet and its important

(3) Food tests

(4) Digestive energy

Classes, characteristics and functions.

SS1 MATHEMATICS

Evaluate QUOTE

Using Logarithm tables.

SS1 COMPUTER

Corel-draw Intermediate

SS1 LITERATURE-IN-ENGLISH

(1) The Blood of a Strange – By Dele Charley

(A) Discuss the character of whitehead showing his contributions to the development of the play

(B) How does the play portray the theme of greed

SS1 LATIN

(1) Write 40 Latin quotations

(2) Give 20 Latin phrases and then make 1 example with each of them.

SS1 AGRICULTURAL SCIENCE

Topic: Agricultural Ecology

Content: (a) Introduction (b) What is agricultural ecology (c) Discuss four components of the farm ecosystem in details (d) Name four biotic factors and four abiotic factors in a farm ecosystem (e) personal understanding / summary

SS1 FURTHER MATHS

(1) Using all the necessary construction materials, construct the following angles (a) 15° (b) 120° (c) 75°

2a. What do you understanding by the word polynomial?

b. Find the possible values of x given that $2x^3 + 2x^2 + x - 5 = 0$

SS1 GEOGRAPHY

Discuss the importance of atmosphere to living things.

SS1 ENGLISH LANGUAGE

Define the following with examples and show the symbols of the punctuation marks among them.

(1) Adjective (2) Adverb (3) Noun (4) Pronouns (5) Verb (6) Articles (7) Colon (8) Question mark

(9) The exclamation mark (10) Apostrophe (11) Commas (12) Parentheses (13) Semicolon (14) Full stop

(15) Subjects, predicates and objects

SS1 CAT

Indulgencies

1. Origin
2. Proper definition
3. Kinds
4. Various ways they are obtained.

SS1 PHYSICS

Distinguish between real and apparent cubic expansivities of a liquid.

A glass bottle full of mercury has mass 500g. On being heated through 35°C , 2.43g 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).

Research questions for 2018/2019 academic year SS2

SS2 CHEMISTRY

TOPIC: Radioactivity

SS2 C R S

Make a note on the following topics and its bible quotations

- a. The Baptism
- b. The Temptation

SS2 ENGLISH LANGUAGE

Instructions: Proper explanation and accurate examples will attract more marks, read wide to be well informed

1. Define preposition, give examples of wrongly used preposition in five sentences

2. Write sentences using the following words with suitable prepositions

a. aim (b) deprive (c) repent (d) boast (e) die (f) succeed (g) insist (h) different (i) good (j) marry (k) fail

(l) interested (m) attack (n) resemble (o) reach

3a. What is a sound?

b. List all the vowel sounds of English

c. Write twenty words to show each sound as an example.

SS2 ECONOMICS

Examine production possibility curve under the following headings

1. Meaning of PPC

2. Concepts of total Average, and marginal production

3. Laws of variable proportions

4. Importance of laws of variable production

SS2 GOVERNMENT

TOPIC: Franchise (a) Definition

(b) Types of franchise (c) Limited franchise (d) Universal or Universal adult franchise (e) Merits of Universal adult suffrage. Ref Essential Govt for SSS by C.C. Dibia (Newest edition).

SS2 CIVIC EDUCATION

Meaning of human rights

Limitations of human rights

What is Red tapism?

Discuss how red tapism has hindered the effectiveness of the Nigerian civil service and Proffer possible solution on how to make the Nigeria civil Service to be more effective

SS2 IGBO

Aha akwukwo “NKE M JI KA”

Malite n'emume nke mbu

Nkiri nke mbu

Guru ruo n'emume nke ano

Nkiri nke ano

Ya bu site na mbido ruo na ngwusi chikotara m ha niile

SS2 BIOLOGY

TOPIC: Evolution

Write on evolutionary trends in plants and animals from simple to complex structural adaptations and from aquatic to terrestrial organisms

The role of mutation in evolution should be mentioned

SS2 COMPUTER

Discuss on computer maintenance

SS2 LITERATURE-IN-ENGLISH

(1) The Native Son – By Richard Wright

(A) Give an account of the steps leading to the murder of Mary

(B) Give a detailed account of Bigger's strained relationship with his mother

SS2 AGRICULTURAL SCIENCE

Topic: Pasture and forage crops

Content: (a) Introduction (b) What is pasture? (c) List ten common grass and legume species of Nigeria pastures, giving their common and botanical names (Note: Draw each pasture crop you name)

(d) Discuss three factors affecting the distribution of pasture in Nigeria (e) personal understanding / summary

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 $P \vee (\neg P \wedge Q)$ 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 X with respect to X in the following equations

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

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

(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

SS2 GEOGRAPHY

Discuss Harmattan in Nigeria

SS2 PHYSICS

Write down the relationships for finding the range and time of flight for projectile fired with an initial velocity of U and at an angle of elevation of Θ . A body projected upward at an angle of 30° with the horizontal has an initial speed of 90 m/s . In how many seconds will it reach the ground? How far from the point of projection will it strike the ground? At what angle with the horizontal will it strike?

Research questions for 2018/2019 academic year SS3

SS3 CHEMISTRY

TOPIC: Extraction of metals- Sodium, Aluminum, Iron, Tin

SS3 C R S

Make a note on the following bible quotation and give a suitable topic for it

a. I Thessalonica 4 Vs 13 – 18

II Thessalonica 2 Vs 1 – 2

b. I Thessalonica 5 Vs 1 – 11

SS3 ENGLISH LANGAUGE

Instructions: Write short notes on the following terms:

1. Regular and irregular verbs (2) Main and auxiliary verbs (3) Concord or agreement of verbs

(4) tenses

(5) Aspect in verbs

Define these aspects of English and give at least three examples of each in sentences (Underline them for easy identification)

a. Transitive and intransitive verbs (b) Finite and non-finite verbs (c) phrasal verbs (d) Adjectival phrases

(e) Types of adjectives and their functions

SS3 ECONOMICS

Government at different times have initiated different economic programmes – X – Ray this under the following headings

1. Meaning
2. Financial institutions consolidation
3. What government has in mind to do this
4. Outcome of the above and problems associated with it
5. Briefly discuss also the following government policies indigenization

Nationalization

Commercialization and privatisation

Deregulation

SS3 GOVERNMENT

Topic: (1) Willink's Commission of inquiry (a) reasons why it was set up (b) recommendations of the commission

(2) Republican constitution – introduction (a) main features (b) merits (c) Demerits (d)

Differences between the independence and republican constitutions in Nigeria Ref: Essential

Govt for SSS by C.C. Dibia.

SS3 CIVIC EDUCATION

What is rule of law?

Importance of rule of law

Process of rule of law

Problems of rule of law

Meaning of human trafficking

Causes of human trafficking

Discuss how red tapism has hindered the effectiveness of the Nigerian Services and proffer possible solutions on how to make the Nigeria Civil Service to be more effective

SS3 IGBO

Site n;akwukwo okpa aku eri eri malite n;isi nke iri na abuo ruo isi nke iri abuo na ano ma chikotara m ya n'otu n'otu.

SS3 BIOLOGY

TOPIC: Biology of heredity

Sub-topic: Transmission and expression of characteristics in organisms

Hereditary variation

Mendel's work in genetics

Mendel's experiments

Mendelian traits

Mendelian laws

SS3 COMPUTER

(1) Discuss on the art of information processing stating (i) Definition of information processing and the (ii) steps involve in information processing

(2) Discuss on information Transmission stating (i) definition (ii) and the methods of transmitting information

(3) Discuss on the medium of information transmission stating the (i) types of information transmission (ii) classification of means of transmission

(4) Discuss on web design packages stating the (i) definition (ii) uses (iii) components (iv) examples

SS3 LITERATURE-IN-ENGLISH

- (1) The Native Son – By Richard Wright
 (A) Discuss the use of symbolism in the novel
 (B) Discuss Bigger’s violent assault on GUS

SS3 AGRICULTURAL SCIENCE

Topic: Animal by-products

Content: (a) Introduction (b) List ten by-products of farm animals (c) describe the economic importance of all the by-products you listed (d) Draw and label the egg, name the functions of the labeled parts (e)personal understanding/summary.

SS3 FURTHER MATHS

1. Evaluate $2(3^x - 4 + 2^x - 2 + 5)$

- (2) Differentiate between permutation and combination
 (3) In how many ways can the letters of these words be arranged?
 (a) PERMUTATION (b) COMMUNICATION (c) LETTER (d) How can the selection be made in other to form a five man committee that must be made up of 3 men and 2 women from a group consisting of 10 men and 7 women.

SS3 GEOGRAPHY

Discuss The physical setting of Nigeria under the following headings:
 (i) Relief of Nigeria (ii) Drainage of Nigeria (iii) Vegetation of Nigeria

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 PHYSICS

- (1) List and explain different types of chemical cells
 (2) Explain the advantages and disadvantages of each of the cells listed above
 (3) With suitable diagrams derive the formula for resistances and EMF of cells in series and in parallel.