COMPUTER STUDIES: (1) you were asked as a school prefect to compile the personal data of the final year students in your school, state two suitable software that could be used to perform the task (2) What is computer file? (3) State features each of transaction file and reference file (4) Define the term system development cycle (5) List four stages involved in system development cycle (6) Define algorithm (7) State three characteristics of algorithm (8) Write an algorithm for finding the average of eight numbers when sum of the numbers is given (9) Using P and Q as inputs and R as output (a) Draw the logic symbol for an XOR logic gate (b) Construct the truth table for XOR logic gate. **PROJECT: Tittle: Network device** Use carton to construct a wireless router and indicate the following parts on its body (i) input port (ii) output port (iii) power button

CHEMISTRY STUDENTS. 1 Using a wet chemical test differentiate between alkenes and alkynes. **2** Primary alkanols are oxidized to __and finally to ___**3**How can you identify an unknown chemical substance to be ethanol. **4** When ethanol is exposed for two days to atmospheric oxygen it changes to---- **5** Using an equation only give two substitution reactions that benzene undergoes. **6** Methane should be prepared in the laboratory by __**7** Chloroform is used extensively as __**8** In electroplating of Iron spoon with silver ____ forms the cathode. **9**Give two precautions to take while measuring the heat of neutralization. **10** ___ is used as standard electrode because ___**11** Give three periodic properties that increases across the period in the periodic table.**12** Mg and Ca which one has higher radius and why. **13**Give three factors that will affect the rate of this reaction $CaCO_{3(s)} + HCL_{(aq)} \longrightarrow CaCL_{2(aq)} + H_2O + CO_{2(g)}$ **14** Define the following terms **a** Enthalpy b. Entropy c. Activation energy.**15** Ammonia gas should be dried using ___or __Differentiate between Isotopy and Allotropy. **16**Use one chemical test to differentiate between SO_2 and H_2S. **17** a. Draw a labeled diagram for laboratory preparation of Chlorine gas from $KMnO_4$ and dilute $HCl_{(aq)}$.b. Give a balance ionic equation for the reaction in (a) above. **18** Explain how increase in temperature affects this system that is at equilibrium, $N_2 + 3H_2 \rightleftharpoons 2NH_3 \triangle H = $ -ve **19** A solution of trioxonitrate (v) acid contained 0.67g in 100cm^3. 31.0cm^3 of this solution neutralized 25cm^3 of a sodium trioxocarbonate (iv) solution. Calculate the concentration of the trioxocarbonate (iv) solution in moldm^{-3} (HNO_3=63, Na_2CO_3= 106). **PROJECT SS3A^{SC}** Prepare a chart containing test for the following gases: CO_2, SO_2, Cl_2, H_2, NH_3, HCl, O_2, and NO_2 **SS3B^{SC}**In an album give the test for the following gases and ions; H_2S, $H_2O_{(g)}$, SO_4^{2-}, CO_3^{2-}, Cl^- and NO_3^- **SS3C^{SC}**In a cardboard sheet draw the diagram for Extraction of Sodium (Down's cell) and Calcium**SS3D^{SC}**In a cardboard sheet draw the diagram for Extraction of Iron and Aluminum

BIOLOGY 1a Name one hormone each involved in (**I**)Plant growth (ii) Animal growth **b.** State the effects of the hormone named in (a) above **2** State five functions of the pituitary gland. **3.** What are hormones. **b.** In a tabular form; state four differences between nervous coordination and hormone coordination in human. **C** State three effects each of (i) over-secretion(ii)Under secretion of thyroxine on mammals.**Project 1.**Draw and label the structure of the mammal in skin on a cardboard sheet.Make it very large and use marker to trace it out and label it. Use plywood to frame it, right round.

IGBO *Zaa ajuju ndi a* (1a) Gini bu aru? (1b) Deputa ihe ato nwere ike ibu aru ala igbo (2a) Kowa ihe bu nzikorita ozi nke teknoloji (2b) Deputa ihe ano eji eme nzikorita ozi nke teknoloji (3a) gini bu ahiriokwu? (b) Deputa njirimara ahiriokwu abuo (4) Deputa udi uda asato ana-ahu na mgbochiume ma nyekwa omuma atu abuo abuo (5) See ogan okwu ma deputa nke oma ihe diga na ya. **PROJEKTI. (1)** Ruo nke oma otu ihe eji eme nzikorita nke teknoloji masiri gi (**SS2A^{SC}, SS2B^{SC}, SS2D^{SC}) (2)** Were nnukwu kadibodu see ma kuchie nke oma chart mgbochiume (**SS2A^{art} mmadu iri ise maka otu) (3) SS 2B^{ART}, na SS 2C^{SC}** Were kadibodu bee ya n'udi albom ma mee ihe ndi a Isiokwu- Ahiriokwu na udi ya di iche iche (a) Kowa ahiriokwu (b) Deputa nke oma udi ahiriokwu asato, kowaa ma nye omumaatu abuo nke obula

CHRISTIAN RELIGIOUS STUDIES 1a Outline in chronological order the first account of creation B Give three reasons why man is regarded as the crown of creation.**2a** Give an account of the report brought to Moses by the twelve spies .b. What three lessons can political leaders learn from the mission of the spies? **3a** Describe the escape of the Israelites from Egypt. B In what two ways was the event significant to Israel? **4a** Recount the effects of the behavior of Eli's children on Israel as a nation. b.What two lessons can be learnt by parents from Eli's attitude? **5a.**Recount King Nebuchadnezzars attack on Judah b.List four effects of war on a nation **6a** Highlight four punishments Amos warned Israel about if they refused to repent. b. List three sins Amos condemned which are prevalent in our society today. **7a** Relate the story of Hoseas marriage to Gomer b. State three factors that ensure stable marriage.**PROJECT TOPJC----THE MISSION OF THE TWELVE** In an Album Page 1----Draw the twelve apostles that were sent out Page 2 State their namesCarve, cut and paste five instructions given to them

AGRICULTURAL SCIENCE 1. Define Agricultural science and state five importance of Agricultural science. 2. State ten problem of Agriculture development in Nigeria 3. Mention five Agricultural policies and programmes. 4. Mention five roles OF NGOS in Agriculture 5. List and explain the four major system of land tenures in Nigeria. 6. Explain briefly the processes of formation of igneous, sedimentary and metamorphic. 7. What is rock weathering. 8. Explain the various types of soil water. 9. Identify ten farm tools. 10. Explain five ways of maintaining farm machine. 11. What does mechanisation mean in Agriculture. 12. Discuss 4 sources of farm power. 13. List three major difference between monocot and dicots.14. Explain the meaning of forage crops and state five uses of forage crops. 15. List 5 common grasses and legumes species if Nigerian pastures given their common and botanical names.**Project** Draw and lable Nitrogen cycle,carbon cycle and water cycle, explain each of the process in an album form.

MATHEMATICS (1)Given that the 3rd term of an AP is 10 and the common difference is 2, find the first term 2 given that the GP 50, 20, 8,…a find the common ratio b find the 8th term if logX =2.3675 and logY=0.9750. what is the value of X+Y 3 the bearing of two points X and Y from Z are 45 and 135 respectively. If ZX=8cm and ZY= 6cm, find XY. 4.if the ball is drawn at random, what is the probability that it is I not blue ii not red in a bag containing 9 identical balls of 3 black, 2 blue and 4 red balls. 5 a boy walks 6km from a point P to a point Q on the bearing of 065. he then walks to a point R a distance of 13km on the bearing of 146. calculate to the nearest kilometer the distance PR
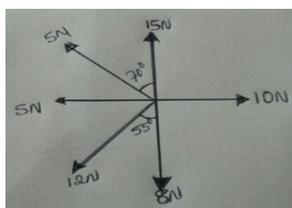
PROJECT he table shows the frequency distribution of the marks of 800 students in an examination

marks	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99
F	10	40	80	140	170	130	100	70	40	20

Draw the histogram of the above information

PHYSICS (1) Calculate the resultant of six forces of magnitudes 15N, 10N, 8N, 12N, 5N and 5N act at a point as shown below. **2.**The following data were recorded in an experiment to determine the specific heat capacity of a certain metal: Mass of metal = 1.5kg

Rating of heating coil = 75.0W

Time of heating coil = 4 minutes . Initial temperature = 27°C . Final temperature = 47°C, What is the specific heat capacity of the metal?

3 Explain with a diagram, how a pure spectrum could be obtained from an impure spectrum. **Project** Make an album using cardboard paper on the following project topics listed below (1)Define cell. List the types of cells that we have(.2) Use diagrams to describe three examples of primary cells. 3. Describe with diagrams secondary cells. 4 Differentiate between primary and secondary cells

ECONOMICS Instruction: Use graph book to answer question 1&2 1.In a certain market, the quantity demanded of rice per kilogram(kg) per week is represented by the function, $Qd=60-2p$ whereas the quantity supplied is represented by the function, $Qs=20+2p$ (a)Find the equilibrium price and the equilibrium quantity. (b)If the values of P are (i)10 (ii)15 (iii)20 (iv)25 (v)7. Find the equilibrium price and quantity from the graphs of the demand and supply functions.

Quantity of goods consumed	Total utility	Marginal utility
0	0	0
1	10	10
2	16	?
3	?	4
4	?	?
5	23	1
6	23	?

2A Complete the beside utility schedule (B) Draw the marginal utility curve (C) (i) At what quantity does TU equal MU (ii) What is the value of MU when TU reaches the maximum? (iii)What happens to the values of TU as the quantity consumed increases?(iv)What happens to the values of MU as the quantity consumed increases? 3(a)Define monopoly. (b) Discuss the causes of monopoly. (i) How can monopoly be controlled?4(a) What is a budget? (B) Explain the following terms: (i) Surplus budget (ii) Deficit budget 5(a) What is inflation? (ii) Describe the types of inflation you know. **PROJECT** Research on the effects of brain drain on the Nigeria economy. Hint: type and not more than two pages.

ENGLISH LANGUAGE: _Comprehension_ (1) Read the passage on pages 144 and 145 of New Oxford English Text book 2 and answer the questions that follow it. (2) _Summary_ Read the passage on page 172 and 173 and answer the summary questions that follow it.(3) _Grammar_ Revision and continuous assessment test page 146 _Exercise 1_ No 1-10 _Exercise 2_ a-e _Exercise 3_ a-e **PROJECT (A)** In an album form, list ten words each associated with motor vehicle and travelling **(B)** Write the meaning of the words and their phonetic transcriptions.

VISUAL ART: Write short note on the following (1) Drawing (2) Painting (3) Sculpture (4) Clay preparation **PROJECT:** Design any material of your choice not more than three colors or any art work of your choice

ANIMAL –HUSBANDRY (1) Explain what is meant by animal husbandry. **2** What are vertebrates ?**3** What are mammals? **4** The vertebrates are of five groups namely. **5** What is ruminant animal? **6** State four examples of ruminant animal. **7** Define poultry and state six examples of poultry birds **8** What is polygastric animals and monogastric animal. **9** Animal body can be divided into four parts explain each with four examples each of the part. **10** Explain 5 functions of the digestive system. **11** Define respiratory system, types of respiration. **12** Explain the nervous system and explain the various central nervous system **PROJECT** Construct fishing net or Hook line for fishing

COMMERCE (1). What is trade association? 2. State 4 functions of trade association? 3 Explain 5 functions of chambers of commerce? 4 Explain the following terms: (I) Underwriters (II) Re- Insurance (III) Ex-gratia payment (IV) Surrender value (5) Explain advertising (6) State 5 roles of advertising **PROJECT** Draw an organsational chart of a named business of your choice.

GEOGRAPHY 1a. Draw an outline map of Nigeria, on the map locate and name, (i) the Gulf of Guinea, (ii) the Bight of Bonny (iii) latitude 14° N, longitude 8° E AND $15^{\circ E}$ (iv) the country to the western border. (v)the Federal Capital Territory. 2. Describe the size and location of Nigeria in relation to other countries of West Africa.3. Give a historical account of the Nigerian political division from 1914 till date. **PROJECT:** Using carton and pebbles or kernel, construct intrusive landforms of vulcanicity

CIVIC EDUCATION 1a. Define capitalist democracy b. Identify 4 characteristics of capitalist democracy 2. State 5 reasons why leaders fail to protect the interest of their followers 3a. Define drugs b. State at least 4 forms of drug abuse 4. What is responsible parenthood b. Identify 4 importance of responsible parenthood 5. Identify 5 skills that promote interpersonal relationship 6a. Define intercommunal relationship b. Explain 4 skills for resolving intercommunal conflict PROJECTCut and paste at least five different forms of political apathy

FINANCIAL ACCOUNTING SSS3A & B Art1. (a) What is deprecation.(b)List five methods of depreciation. 2. (a)What is authorized capital. (b)Explain ordinary and preference share capital.3. Explain five requirements for companies accessing capital market.4. Mention five benefits of capital market to: (a)Individual investors (b)Government (c)Economy.5. Differentiate private from public companies. PROJECTUsing cardboard sheet, make an album and show the following formats. A.Trading, profit and loss account format of a company.B Format for appropriation account of a company. C Format for balance sheet of a company.

DATAPROCESSING I) List and explain any five features seen in a graphic environment 2) Outline the database objects you know.b) Explain any two. 3) Explain these internet terminologies i) cyberspace ii) browser Iii) HTTP iv) HTML v) Homepage 4) Mention two conditions for a table to be in third normal form 5) State any two significances of data model. 6) List and explain any five abuses of the internet.7) Mention any three uses of a web design package8) State any two battery charging points.9) Using corel draw, design a complimentary card with your name as the business owner and save in an flash to be submitted on return. **PROJECT**- Using cardboard sheet and in an album form, illustrate using diagram and explain five network topologies.

LITERATURE-IN-ENGLISH 1. Define the expression Wuthering height. What is its significance? 2. Give the subjects matter of the following poems (i) Black woman-by Leopard Sengbor (ii) The Grieved Lands-by Augustinho Neto (iii) The Songs of the Women of Our Land (iv)The Journey of the Magi-by Ts. Eliot 3. What message has the poem above for the reader? Give account of the poem "the leader and the led" bringing out the following: (a) Background (b) setting(c) subject matter e.t.c. what have you learn about leadership from the poem? 4. Give the subject matter of novel invisible man

5. Discuss the theme of anger in the plot "Look back anger"6. Give a plot account of the play "midsummer nights dream by W. Shakespeare **PROJECT** 1. Study and discuss briefly the symbols and motifs used by J.J Osborne in the plot "Look in anger"

FOOD/NUTRITION 1Explain large kitchen equipment with three examples. 2. Mention three raising agents used in flour mixture 3 Enumerate five local fours and their uses 4 Convenience foods means (b) state five examples of convenience foods 5 List four storage equipment used to store cereals and legumes 6 Explain seafood with five examples 7 Classify seafood into three categories with example each 8 State five reasons for preserving foods 9 List five types of foreign herbs and two examples of local herbs 9 Explain the following (i)shopping list(ii)market survey(iii)cost analysis (iv)perishable foods (v)non-perishable foods **PROJECT** Draw interpretation sheets –Part A-C

CATERING CRAFT PRACTICE 1 State the three categories of kitchen equipment with one example each.**2** Discuss the use of the following (i) Meat mincer(ii)Refrigerator(iii) food processors **3**List and explain five factors that affect the choice of kitchen equipment 4. Enumerate three pastries each that can be baked and fried **5** State three advantages and disadvantages each of the following: boiling, stewing and frying **6** Explain in poultry and list three examples of poultry **7** Mention three types of fish with one example each. **8** In composition of milk, Proteins-%**,** Carbohydrates-%**,** Fat-%**,** Water-%**.** Mineral water-%**.** Vitamin-% **9** Mention five types of milk   **10** State three types of legumes and their uses **11** Mention two fish dishes in French **12** Explain the following (i)menu(b)buffet menu(iii)function menu

Government: 1a. Outline reasons for the demand for creation of more states. b. Identify at least five solutions to minority problem in Nigeria 2a. Explain secession and outline problems of secession in Nigeria b. Enumerate majors to avoid secession in Nigeria. **PROJECT** Identify all the political parties in the first republic, their motto and their logo and their year of establishment.