**LESSON PLAN FOR WEEK 3 ENDING 29TH SEPTEMBER, 2023**

**SUBJECT: COMPUTER STUDIES**

**TEACHER: CHUKWUEMEKA UCHECHI. P FIRST TERM**

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| **Theme** | **Computer System** |
| **Lesson Topic** | **Computer Software** |
| **Date** | **25th September to 29th September 2023** |
| **Time** | **8:00 – 9:20am, 8:40 – 10 :00am, 12:40 – 2:00pm** |
| **Duration** | **80 minutes** |
| **Class** | **S.S 1 A, B, and C** |
| **Average Age** | **13 years** |
| **Sex** | **Mixed** |
| **Period** | **1st, 2nd, 3rd, 4th and 5th** |
| **Behavioural Objectives** | **At the end of the lesson, students should be able to;**   1. **List the components of computer software.** 2. **Explain system software** 3. **Explain Application Software** |
| **Previous Knowledge** | **The students have used software before.** |
| **Instructional Resources** | **Softcopies of software in CD’s and DVD’s** |
| **Reference** | 1. **New Computer Studies for Senior secondary Schools 1 by J.O.E. Otuka et al** |

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| **STAGES/STEPS** | **TEACHER’S**  **ACTIVITIES** | **STUDENT’S**  **ACTIVITIES** | **MODE** |
| **INTRODUCTION** | The teacher introduces the topic by asking the students to mention the types of software they have used before. | The students respond to the question asked by the teacher | **Individual** |
| **PRESENTATION** | **The teacher presents the topic with the following steps:** |  |  |
| **STEP 1 (EXPLORATION)** | The teacher displays the CDs containing operating system and other application programs. | Students observe and identify the software. | **Individual** |
| **STEP 2 (DISCUSSION)** | The teacher discusses the lesson plans as follows:  **THE COMPUTER SOFTWARE**  Computer software is a collection of computer programs that provides the instructions needed by the computers to perform specific functions.  The software can be categorized into two:   1. System software 2. Application software.   **SYSTEM SOFTWARE**  System software is a computer software designed to operate the computer hardware and to provide and maintain a platform for running application software.  Some of the system software include:   1. Operating system 2. Device drivers 3. Utility software 4. Language translator 5. Server software   **APPLICATION SOFTWARE**  An application software is a computer software designed to help the user to perform a singular or multiple related specific tasks.  Examples of Application software include:   1. Computer Aided Design 2. Presentation package 3. Spreadsheets 4. Image editing 5. Educational software 6. Database 7. Word processors 8. Media players 9. Mathematical software | The students give their views on the meaning of computer software and listen to the teachers’ explanation. | **Entire class** |
| **STEP 3 (APPLICATION)** | The teacher allows the students to see how the software can be copied, transferred and installed into the computer system. | The students can identify device drivers, operating system and other software CDs and DVDs. | Individual |
| **STEP 4 (EVALUATION)** | The teacher accesses the students understanding with the following questions:   1. List the two components of a system software. 2. What is a system software? 3. What is an application software? | The students respond to the teacher’s questions actively. | Individual |
| **CONCLUSION** | The teacher recaps the lesson and answers questions from the students. | The students listen to the summary of the topic and ask their respective questions where necessary. | **Entire class** |
| **ASSIGNMENT** | 1. What are the classes of application software. 2. List three (3) examples of system software. |  | **Individual** |

**REX CHRISTUS COLLEGE**

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**SUBJECT: COMPUTER STUDIES**

**TEACHER: CHUKWUEMEKA UCHECHI. P FIRST TERM**

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| **Theme** | **Computer Software II** |
| **Lesson Topic** | **OPERATING SYSTEM** |
| **Date** | **25th September to 29th September 2023** |
| **Time** | **8:00am – 9:20am,** |
| **Duration** | **80 minutes** |
| **Class** | **J.S.S 2 A, B, C and D** |
| **Average Age** | **10 years** |
| **Sex** | **Mixed** |
| **Period** | **1st, 2nd, 3rd, 7th and 8th** |
| **Behavioural Objectives** | **At the end of the lesson, students should be able to;**   1. **Define operating system.** 2. **Explain the types of operating system.** 3. **List examples of operating systems used in PCs, and smartphones.** 4. **Discuss the functions of operating system** |
| **Previous Knowledge** | **The students have learnt the classes of system software**. |
| **Instructional Resources** | **Laptops, Desktops with application software.** |
| **Reference** | 1. **New Computer Studies for junior secondary schools Book 2, by J.O.E Otuka et al.** 2. **Classic Computer Studies for junior secondary schools Book 2, by Vivian Nwaocha et al.** |

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| **STAGES/STEPS** | **TEACHER’S**  **ACTIVITIES** | **STUDENT’S**  **ACTIVITIES** | **MODE** |
| **INTRODUCTION** | The teacher reviews the last lesson and asks students to list the various classes of system software. | The students answer the teachers’ questions. | **Individual** |
| **PRESENTATION** | **The teacher presents the topic with the following steps:** |  |  |
| **STEP 1 (EXPLORATION)** | The teacher introduces the topic by asking the students to boot their computer systems and observe the type of system software displayed on the desktop. | The students boot their computers to observe the type of system software displayed on the desktop. | **Entire class** |
| **STEP 2 (DISCUSSION)** | The teacher discusses the lesson plan as follows:  She guides the students to define operating system.  **An operating system** is a system software is the software that controls the basic internal operations of a computer system and co-ordinates the hardware activities.  It is first program loaded into the computer memory whenever the computer is turned on.  **TYPES OF OPERATING SYSTEM**  Operating systems have continued to evolve from the time of the early computer generation. Below are lists of the types of operating system.   * Single user, single tasking OS * Single user, multi-tasking OS * Multi- user, multi-tasking OS * Network OS * Time -- sharing OS * Real – time OS * Distributed OS/Multi processing OS * Embedded OS   **EXAMPLES OF OPERATING SYSTEMS USED IN PCs**  **They include:**   1. **Microsoft Disk Operating System (MS DOS)** 2. **Microsoft Windows (MS Window)** 3. **Linux** 4. **Unix** 5. **Apple Macintosh OS**   **EXAMPLES OF SOME COMMON MOBILE OPERATING SYSTEM**  **The following OS are used in mobile devices like phones, tablets smartwatches, PDAs, e.t.c**   * **Google Android** * **Apple iOS** * **Nokia’s Symbian** * **Hewlett-Packard’s Web OS (formerly palm)** * **BlackBerry OS** * **Microsoft Windows phone**     **FUNCTIONS OF OPERATING SYSTEM**   1. **It co-ordinates hardware and software activities.** 2. **It supervises the running of the application software** 3. **File management. OS manages how files are stored in devices. It also provides the ability to create, delete, enter, change, ask for, and access files on data.** 4. **It provides an interface between the computer resources and the user. GUI** 5. **It controls input and output operations.** 6. **It controls all operations of the system.** 7. **It provides security for the computer system through the use of passwords, firewall and other security techniques.** 8. **It allocates facilities for files and programs.** 9. **It provides error detecting aids such as error messages.** | The students state their views on the meaning of operating system. | **Entire class** |
| **STEP 3 (APPLICATION)** | Students are to identify the CD’s with operating system software and those with application software | The students are allowed to list many other computer career opportunities | Individual |
| **STEP 4 (EVALUATION)** | **The teacher evaluates the students by asking the following questions**:   1. **Define operating system.** 2. **Explain the types of operating system.** 3. **List examples of operating systems used in PCs, and smartphones.** 4. **Discuss the functions of operating system** | The students respond to the questions asked by the teacher and ask their own questions for better understanding | Individual |
| **CONCLUSION** | At this point, the teacher recaps the lesson and answers questions from the students. | The students listen to the summary of the topic and ask questions |  |
| **ASSIGNMENT** | Write short notes on the following:   1. **Apple iOS** 2. **Macintosh OS** 3. **Android OS** |  |  |