Strand:	Introduction to Computing	Sub-Strand:	Components of Computers and Computer Systems

BASIC 8

WEEKLY LESSON PLAN – WEEK 2

Content Standard:	B8.1.1.1. Identify parts a computer and technology tools					
Indicator (s)	B8.1.1.1.1. Discuss the fifth generation of computers with emphasis of on quantum computing			**Performance Indicator:** Learners can use the fifth-generation computers.		
Week	20-09-2024					
Class	B.S.8	**Class Size:**			**Duration:**	
Subject	Computing					
Reference	Computing Curriculum, Teachers Resource Pack, Learners Resource Pack, Textbook.					
Teaching / Learning Resources	Personal Computer, Processor, Microchip, Motherboard.		**Core Competencies:**		• Creativity and Innovation • Communication and Collaboration.	

DAY/DATE	PHASE 1 : STARTER	PHASE 2: MAIN	PHASE 3: REFLECTION
TUESDAY	Through questions and answers, review learners knowledge on the 4th generation of Computers.	1. Discuss the meaning of Quantum Computer with the Learners. 2. Assist Learners to identify 5 features of the fifth generation of Computers. 3. Learners in small groups to discuss and report to the class the difference and relationship existing between the fourth and the fifth generation of computers. **Quantum Computer;** Quantum computing is a type of computation whose operations can harness the phenomena of quantum mechanics, such as superposition, interference, and entanglement. Devices that perform quantum computations are known as quantum computers. **Features of fifth-generation computers:** • Use of Artificial Intelligence. • Use of optical fiber in circuits. • Development of the elements of programs. • Use of Natural language.	Learners brainstorm to distinguish between the 4th and the 5th generation of computers. **Exercise;** 1. Explain Quantum Computers. 2. State 5 features of the fifth generation of computers.

		• Magnetic enabled bio-chips	
THURSDAY	Learners brainstorm to explain meanings of keywords or terminologies in the lesson. **Keywords;** • Sycamore • Artificial Intelligence • Quantum • Parallel processing hardware	1. Discuss the meaning of Parallel processing hardware with the Learners. 2. Show Learners pictures of Parallel Processing hardware. 3. Assist Learners to identify examples of Parallel Processing hardware. 4. Learners in small groups to discuss the meaning of Artificial Intelligence Software and report to the class. 5. Individual Learners brainstorm to identify the application of Artificial intelligence (5 AI applications) **Parallel processing hardware;** Parallel processing is a method in computing of running two or more processors (CPUs) to handle separate parts of an overall task. **The Applications of Artificial Intelligence;** • Personalized Shopping. • AI-powered Assistants. • Fraud Prevention. • Administrative Tasks Automated to Aid Educators. • Creating Smart Content. • Voice Assistants. • Personalized Learning. • Autonomous Vehicles. 	Through questions and answers, conclude the lesson. **Exercise;** 1. Define 'Parallel Processing Hardware. 2. Explain 4 applications of Artificial Intelligence.

Name of Teacher: **School:**   **District:**