EaD Comprehensive Lesson Flans

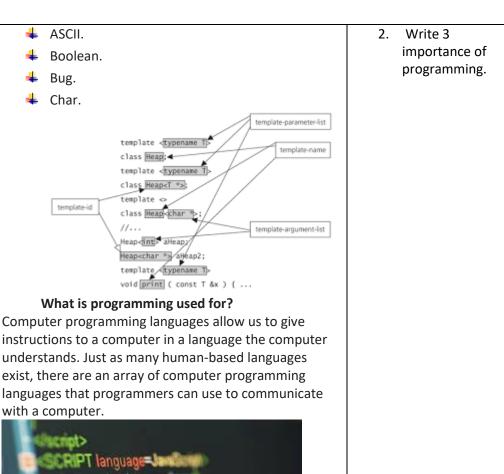


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BASIC 7

WEEKLY LESSON PLAN – WEEK 7

Strand:	Computational th	ninking Sub-Stra		nd: Introduction to pro			o pro	ogramming		
	B7.4.1.1. Show an understanding of the concept of programming									
Content Standard:										
Indicator (s)	B7.4.1.1.1 Demonstrate the correct use of programming terminologies B7.4.1.1.2 Demonstrate understanding in the use of data types (e.g. float, integer, string, char, etc.) B7.4.1.1.3 Demonstrate the use of constants and variables used in Programming							ners can use Co	onstants	
Week Ending										
Class	B.S.7	Class Size:			Dura	ation:				
Subject	Computing		l							
Reference	Computing Curriculum, BS7 Computing Textbook, Teachers Resource Pack, Learners Resource Pack									
Teaching / Learning Resources	Personal Computer, Power point Presentation, Poster			Core ompetenci	es:					
DAY/DATE	PHASE 1 : STARTER	PHASE 2: M.	AIN					PHASE 3: REFLECTIO)N	
TUESDAY	Assist Learners to identify and explain Programming terminologies.	 Language Learners of Progra Discuss t terminol Discuss t Assist Le type. Algorithm or rules of 	 Discuss with Learners types of Programming Languages Learners in small groups to practice correct use of Programming terminologies. Discuss the functions of Programming terminologies with the Learners. Discuss the meaning of Data type with Learners. Assist Learners to identify 5 examples of data type. Algorithm; An algorithm is a set of instructions or rules designed to solve a definite problem Program; A computer program is termed as an 					Learners brainstorm to explain the examples of data types. Exercise; 1. Explain the following; i. Algorithm ii. Program iii. API iv. Argument		
		organize	d collection	on of instr	uction	s, which where function.	hen	v. vi. vii. viii.	Ascil Boolean Bug Char	



with a computer.

Script | Scr

benefits of computer programming;

- Earn a good salary by building skills.
- Flexibility to work from anywhere, anytime.
- Creatively solve real-world problems.
- Develop cool mobile applications.
- Make addictive games that users love.
- Stay ahead of the curve by continually evolving.

FRIDAY	Discuss the	Assist Learners to	Throug	th augstion and	
FRIDAI	meaning of	Constants and Va	Through question and		
	Constants and	2. Show Learners a	answers, conclude the lesson.		
	Variables in	and Variables are	1633011.	•	
	Programming.	3. Learners in small			
		Variables.	Exercise;		
		4. Engage Learners	LACICISE,		
		Variables in Progr	_	1.	Identify 3
			Learners brainstorm to explain the benefits of Constants and Variables in developing a		
		Program			Constants and
					Variables.
			2.	Write 2 benefits	
		Definition of Constant:		of Constants and	
		As the name implies, the		Variables in	
		constant ever. Constant		developing a	
		cannot be changed by		Program.	
		represented by numbers.			
		For example in the algebra			
		3x + 5y = 7, where 7 is the			
		is 7 and it cannot be ch			
		constants because the va			
		value. Definition of Variable:			
		-	hanging is said to be variable. sented by an alphabet like a, b,		
		c, or x, y, z. Its value chan			
		For example in the Algeb			
		3x + 5y = 7 where x and y			
		according to the expressi			
		Difference between Cons			
		Constant	Variables		
		A constant does not	A variable, on the other		
		change its value and it	hand, changes its value		
		remains the same	from time to time depending on the equation		
		forever			
		Constants are usually	Variables are usually		
		represented by	represented by		
		numbers			
		The face value of	The face value of		
		constants is known unknown			
		For example, in the			
		A = 7	1		

equation 3x + 4 = 7, here 4 and 7 are

constants.

For example, 5x + 3y = 6,

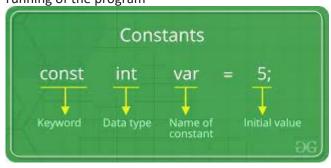
here x and y are variables

A constant is a data item whose value cannot change during the program's execution. Thus, as its name implies – the value is constant. A variable is a data item whose value can change during the program's execution. Thus, as its name implies – the value can vary.

Variables are needed to run all but the most simple computer programs. As a program runs, it needs to hold information in its memory. This may be a number, the answer to a question or something else. Variables allow us to store, change and access this information as the program runs.

How are constants and variables important in developing program?

A program can contain many variables and constants, so it is important to give them sensible names that try to describe the item of data that they hold. The key difference between a variable and a constant is: The value stored in a variable can/may change during the running of the program



Name of Teacher: School: District: