THIRD TERM WEEKLY LESSON NOTES – B8 WEEK 7

Week Ending: 11-08-2023	DA	Y:	Subject:	: Computing			
Duration: 60mins			Strand: (Computational Th	utational Thinking		
Class: B8	Cla	ss Size:	Sub Stra	ind: Introduction to Programming			
Content Standard: B8.4.1.1. Show an understanding of the concept of programming			in programming I of 2				
Performance Indicator: Learners can describe the basic concepts in programming			Core Competencies: CC8.2: CP6.1				
Reference: Computing Curriculum Pg. 36							
				D		• • •	
Activities For Learning & As	sessi	ment		Resources	Progression		
Starter (5mins) Revise with learners to review their understanding in the previous lesson.			Pictures and videos	Describing the basic concepts in programming			
Share performance indicators and introduce the lesson.							
Main (35mins)							
Introduce the concept of programming and its importance in the world of technology.							
Explain that programming involves giving instructions to a computer to perform specific tasks.							
Discuss key concepts such as algorithms, variables, and control structures.							
Provide a simple problem or task to solve (e.g., making a peanut butter and jelly sandwich).							
In groups, ask learners to design a step-by-step algorithm to complete the task.							
Introduce the concepts of variables and control structures (e.g., loops, conditionals).							
Demonstrate how variables can store and manipulate data, and how control structures help control the flow of a program.							
Provide examples and encourage structures in familiar scenarios.	lear	ners to identify variables an	d control				
Task learners to design a simple algorithm for a problem of their choice.							

Allow learners to share their algorithms and discuss their thinking process with the class if time permits					
Assessment					
 What is programming, and why is it important in the world of technology? What are some key concepts in programming? Explain algorithms, variables, and control structures. In groups, design an algorithm for a simple task of your choice. Share your algorithm with the class. How do variables help in programming, and why are they important? What are control structures, and how do they control the flow of a program? 					
Reflection (10mins)					
Use peer discussion and effective questioning to find out from learners					
what they have learnt during the lesson.					
Take feedback from learners and summarize the lesson.					
Homework/Project Work/Community Engagement Suggestions					
Task learners to design a simple algorithm for a problem of their choice					
Potential Misconceptions/Student Learning Difficulties					
None					

Week Ending: 11-08-2	eek Ending: 11-08-2023 DAY: Subject: Computing						
Duration: 60mins Strand				Computational Thinking			
Class: B8	Clas	ss Size:	Sub Stra	Strand: Introduction to Programming			
Content Standard: B8.4.1.1. Show an understanding of the concept of programming B8.4.1.1.1 Describe the basic concep				ts in programming 2 of 2			
Performance Indicator: Learners can create a table to compare how the same arithmetic notations are represented in coding and in classroom mathematics				Core Competencies: CC8.2: CP6.1			
Reference: Computing Curriculum Pg. 36							
				-			
Activities For Learning	ng & Assessn	nent		Resources	Progression		
Starter (5mins)	Starter (5mins)				Desc	ribing the	
				videos	basic	concepts	
Revise with learners to	review their ur	nderstanding in the previou	is lesson.		in pro	ogramming	
Share performance indicators and introduce the lesson.							
Main (35mins)							
Explain the importance of arithmetic operations in programming for performing calculations and manipulating data. Discuss common arithmetic operations such as addition, subtraction, multiplication, and division.							
Provide learners with a notation, mathematical r	table template representation	with columns for arithmet , and coding representation	ic n.				
Arithmetic	Coding	Classroom					
Notation	Representat	tion Mathematics					
Addition	+	+					
Subtraction	-	-					
Multiplication	*	×					
Division	/	÷					
Exponentiation	** or ^	^ or					
Paranthacas		Exponentiation					
Square Boot	() sart() or **(0.5 1					
Absolute Value							
Floor Division	//	÷ (with auotient)					
Modulo	%	% (Remainder)					
Order of	Follows	Follows					
Operations	PEMDAS/BO AS		AS				

Guide learners to fill in the table by comparing arithmetic notations				
coding languages (e.g., "+" for addition, "-" for subtraction).				
Review the completed comparison table as a class, discussing any				
differences or similarities between the two representations.				
Provide additional examples and ask learners to identify the corresponding				
coding representation for given arithmetic expressions.				
Assessment				
 What are some common arithmetic operations used in programming? Create a comparison table with arithmetic notations, mathematical 				
representation, and coding representation.				
3. Give an example of an arithmetic expression in mathematics, and identify				
4. How does the coding representation of arithmetic notations differ from				
the mathematical representation?				
5. Why is it important for programmers to understand and translate				
mathematical concepts into coung representations:				
Reflection (10mins)				
Use peer discussion and effective questioning to find out from learners				
what they have learnt during the lesson.				
Take feedback from learners and summarize the lesson.				
Homework/Project Work/Community Engagement Suggestions				
I ask learners to design a simple algorithm for a problem of their choice				
Potential Misconceptions/Student Learning Difficulties				
None				