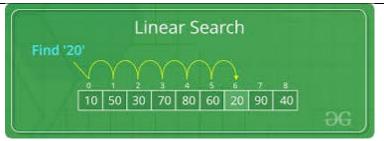
BASIC 7

WEEKLY LESSON PLAN – WEEK 11

Learning Indicator(s)	B7.4.2.1			
Performance Indicator	B7.4.2.1.2 Perform a linear search			
Week Ending	26-11-2022			
FORM	B.S.7			
Subject	Computing			
Reference	Teacher Resource Pack, Learners Resource Pack, Curriculum			
Teaching / Learning Resources	Personal Computer, Smart Phone, Word Chart			
CORE COMPETENCIES	Core Competencies: CI, CC, CL, CI 6.1, CC 7.4			
DAYS	PHASE 1 : STARTER	PHASE 2: MAIN	PHASE 3: REFECTION	
MONDAY 22-11-2022	Review Learners knowledge on the previous lesson.	 Discuss the meaning of Linear search with the Learners. Learners brainstorm to identify 5 examples of Linear search. Meaning of Linear Search; Linear search is a sequential searching algorithm where we start from one end and check every element of the list until the desired element is found. It is the simplest searching algorithm. One of the most straightforward and elementary searches is the sequential search, also known as a linear search. 	Core Competencies; Ability to effectively define goals towards solving a problem.	



Examples of Linear Search;

LINEAR_SEARCH(A, N, VAL)

Step 1: [INITIALIZE] SET POS = -1

Step 2: [INITIALIZE] SET I = 1

Step 3: Repeat Step 4 while I<=N

Step 4: IF A[I] = VAL

SET POS = I

PRINT POS

Go to Step 6

[END OF IF]

SET I = I + 1

[END OF LOOP]

Step 5: IF POS = -1

PRINT VALUE IS NOT PRESENT IN THE ARRAY

[END OF IF]

THURSDAY 25-11-2022	Through questions and answers, introduce the lesson.	 Assist Learners to locate a given value position out of listed values. Learners in small groups to arrange some given values or data in increasing and decreasing order. How to arrange values or data in increasing and decreasing order; For example, if k=2, the input array consists of two subarrays, one increasing, the other decreasing. Reversing the second subarray yields two sorted arrays and the result is then merged which can be done in O(n) time. Generalizing, we could first reverse the order of each of the decreasing subarrays. Descending Pivot Ascending Order 	Core Competencies; Ability to effectively define goals towards solving a problem.
		3 4 5 1 2	