Scheme o	i Learning:	GCSE COMPUUNS						
Topic Sequen	ice:						7,0	
1		2	3	,	4	5		6
Computation	al Thinking	Data	Computers	Net	vorks	Issues and	Impacts	Programming
Topic Overv	iew:							
The main for	ocus of the	first three lessons of this	s unit is searching and so	ting algorith	ms. thou	igh other topics a	re covered.	such as computational
			essons 4 to 10 of the unit					
			tracing algorithms. Learn					
a range of a								
Links:								
GCSE Comp	uting Topic	1						
Lesson Sequ	uence:							
Lesson 1 Co	mputationa	al Thinking: Learners are	introduced to three com	putational t	hinking te	echniques: decon	nposition, al	bstraction, and
algorithmic								
		- 1981 	f this lesson is developing				1.1	
			lesson is mainly on using					
		그리고 있는 것 같은 사람들이 되었다면 하는 것 같아 없는 것 같아 없었다면 없다.	rting algorithms. They wil d to one of the two search					
			rform a linear search in re				out. IIIIeai se	zarcii. Triey will go over
		- C 1	d to binary search, the se				v need to k	now about. They will
			h and perform a binary se					,
			rners will compare the fe					
algorithm in	different co	ontexts. This lessons act	s as a revision lesson for t	he two sorti	ng algori	thms from Lesson	ns 4 & 5.	
Lesson 7 Bubble sort: This lesson introduces learners to the first sorting algorithm in this unit: bubble sort. They will discuss why and where								
sorting is used in real life, become familiar with performing a bubble sort on a set of data, and investigate the efficiency of bubble sort.								
Lesson 8: Insertion sort: Learners will explore another sorting algorithm: insertion sort and compare the efficiency to bubble sorts. Lesson 9 Coding sorting algorithms: Learners will analyse and evaluate code for bubble sort and insertion sort in Python, as well as comparing								
		g algorithms: Learners w ons of the bubble sort al		dud for bub	ole sort a	na insertion sort	in Python, a	as well as comparing
			final sorting algorithm in	this unit: m	erge sort	They will start b	v considerir	ng how they might go
			to one sorted group. They					
This unit								
National curriculum links Develop their capability, creativity, and knowledge in computer science, digital media, and information technology								
			ng, design, and computat	100 TO 10		ormation techno	юву	
			8,					
Sequence of Lessons:				Topic Resources:				
	(Station (eq.)			Knowledge Comput		ational	Any other	
1		1.1 Computational	Thinking	Мар:	Thinking	1-3	Resources:	
2		1.2 Representing Al	lgorithms	Assessmer	ıt:	100		
-			• • • • • • • • • • • • • • • • • • • •	Manual de		NAMES OF THE OWNER OF THE PARTY		
3		1.3 Tracing Algor	rithms	Knowledge	2 Assessments (1 after lesson 3 and 1 after lesson 10)			
3		1.5 Tracing Algor	manns .					
		1.4 Linear Search						
4	1.4 Linear Search		arcii	Application of Knowledge:		Mastery Books		
	1 5 0 1		a v a b	Miowieuge				
5		1.5 Binary Sea	aicii			1		
		1 6 Command Co.	rching	Supportive	Reading:			
6		1.6 Compare Searching				GCSE (1CP2) EDEXCEL: Topic 2A Binary - YouTube		
						COST (ACOS) ENEVER TO A COST		
1				Craig n Dav	e Videos	GOSE (1000) EDE	(CEL Tania 2	
10000		1.7 Bubble So		Craig n Dav	e Videos	GCSE (1CP2) EDE: compression - Yo		B Data representation &
8		1.7 Bubble So		Craig n Dav	e Videos			
		1.7 Bubble So	ort			compression - Yo	uTube orithms - Edex	B Data representation & ccel - GCSE Computer
			ort	Craig n Dav		compression - Yo	uTube orithms - Edex	B Data representation & ccel - GCSE Computer
9		1.8 Insertion S	ort			compression - Yo	uTube orithms - Edex	B Data representation & ccel - GCSE Computer
9			ort		,	Algorithms - Algo Science Revision Pearson REVISE E	orithms - Edex - Edexcel - BB	B Data representation & ccel - GCSE Computer