

Key Stage 5 Curriculum Map 2021-22

Term 1

Year: 13		
UAE Links	HPL Links	Home Learning/ Recommended Reading
Programming activities with links to the UAE	HARD WORKING-Perseverance	Reading: Alevel textbook Home learning: as per lesson resources online/NEA
Programming activities with links to the UAE	ANALYSING-Precision AGILE- Risk taking	Reading: Alevel textbook Home learning: as per lesson resources online/NEA
Programming activities with links to the UAE	ANALYSING-Precision	Reading: Alevel textbook Home learning: as per lesson resources online/NEA
Programming activities with links to the UAE	HARD WORKING-Resilience ANALYSING-Precision	Reading: Alevel textbook Home learning: as per lesson resources online/NEA
Creating abstract data types to mimic daily scenarios in the UAE	META-THINKING-Meta cognition	Reading: Alevel textbook Home learning: as per lesson resources online/NEA
Abstract data type to relate to UAE e.g. tree's and Emirates	META-THINKING-Meta cognition	Reading: Alevel textbook Home learning: as per lesson resources online/NEA
	Programming activities with links to the UAE Creating abstract data types to mimic daily scenarios in the UAE Abstract data type to relate to UAE e.g.	Programming activities with links to the UAE META-THINKING-Meta cognition Abstract data type to relate to UAE e.g. META-THINKING-Meta

 Optimisation algorithms Dijkstra's Traversals Reverse Polish Notation 	Shortest path algorithms to be applied to routes around the Dubai	ANALYSING- Critical or logical HARD WORKING-Practice	Reading: Alevel textbook Home learning: as per lesson resources online/NEA	
 Programming linear & binary searches Sorting algorithms 	Accountability	HARD WORKING-Practice ANALYSING- Critical or logical	Reading: Alevel textbook Reading: Alevel textbook Home learning: as per lesson resources online/NEA	
 Turning Machines Maths for regular expressions Regular expressions and languages Context free language 	Accountability	ANALYSING-Precision HARD WORKING-Practice	Reading: Alevel textbook Home learning: as per lesson resources online/NEA	
BNFBig O notationThe binary number system	How companies within the UAE collect, store and process big data	ANALYSING-Precision HARD WORKING-Practice	Reading: Alevel textbook Home learning: as per lesson resources online/NEA	
The InternetInternet security	IP address around the world and within the UAE region	LINKING-Big picture thinking	Reading: Alevel textbook Home learning: as per lesson resources online/NEA	
TCP/IP Client server model	Integrity	ANALYSING-Precision	Reading: Alevel textbook Home learning: as per lesson resources online/NEA	
Computer Systems (Alevel)Computer Organisation Architecture (Alevel)	Accountability	HARD WORKING-Practice	Reading: Alevel textbook Home learning: as per lesson resources online/NEA	
Winter Break				