

Key Stage 5 Curriculum Map 2021-22

Term 2

Subject: Computer Science	Year: 12		
Focus/Topic	UAE Links	HPL Links	Home Learning/ Recommended Reading
 Single and multi-dimensional arrays External data Fields records and files User Defined Data Types 	Programming scenarios linked to the UAE Accountability and brotherhood	HARD WORKING-Resilience LINKING- Connection finding	Reading: Alevel textbook Home learning: as per lesson resources online
 Validation Sorting and searching The roles of variables Fundamentals of Structured programming approaches 	Programming scenarios linked to the UAE Accountability and brotherhood	CREATING- Intellectual playfulness	Reading: Alevel textbook Home learning: as per lesson resources online
Logic bit and set operatorsAssessment	Programming scenarios linked to the UAE Accountability and brotherhood	META-THINKING-Meta cognition	Reading: Alevel textbook Home learning: as per lesson resources online
Computational thinkingStages of problem solvingAlgorithm design	Accountability	HARD WORKING-Resilience	Reading: Alevel textbook Home learning: as per lesson resources online
Mocks			
Mocks	Half Term		
 Abstraction and automation Finite State Machines Assessment 	Automation within Dubai UAE links – Creative intelligence (The UAE government has used AI to limit the movement of Dubai residents by using a program called 'Oyoon'. This program monitors the permits of residents who leave their homes by using facial, voice, and license plate recognition. UAE want to be the leader of AI by 2031.	Linking – Big picture thinking ANALYSING-Precision HARD WORKING-Perseverance	Reading: Alevel textbook Home learning: as per lesson resources online

 Hardware and software Classification of programming languages and translation Assembly Language 	Accountability – Islamic link one is accountable for his own actions. UAE links launched an initiative to foster the development of coding in the country	Linking – Big picture thinking ANALYSING-Precision HARD WORKING-Resilience	Reading: Alevel textbook Home learning: as per lesson resources on MS Teams		
 Assessment Logic Gates Boolean Algebra Simplifying Boolean Expressions including De Morgan's Law 	Accountability – Islamic value of been honourable and marking your work with precision UAE link logical theories	Linking – Big picture thinking ANALYSING-Precision HARD WORKING-Perseverance	Reading: Alevel textbook Home learning: as per lesson resources on MS Teams		
Simplifying Boolean Expressions including De Morgan's Law	Accountability – Islamic value of characteristic of simplicity and modesty. Islam teaching of Prophet Muhammed (PBUH) lived a life of humility and modesty.	ANALYSING-Precision HARD WORKING-Perseverance	Reading: Alevel textbook Home learning: as per lesson resources on MS Teams		
Assessment, feedback and improvements Spring Break					