

Key Stage 5 Curriculum Map 2020-21

Term 1

Subject: Computer Science	Year: 12	
Focus/Topic	UAE Links	Home Learning / Reading
Induction week		
Baseline assessments, curriculum orientation and expectations		
Fundamentals of Programming including Data Types, Programming concepts and Arithmetic operations in a programming language		Reading: Alevel textbook Home learning: as per lesson resources on MS Teams
 Programming concepts including; Selection Boolean operators Iteration built in function 		Reading: Alevel textbook Home learning: as per lesson resources on MS Teams
 Programming concepts including procedures and function, parameters, trace tables and exception handling Mini assessment 		Reading: Alevel textbook Home learning: as per lesson resources on MS Teams
 Single and multi-dimensional arrays External data Fields records and files User Defined Data Types 		Reading: Alevel textbook Home learning: as per lesson resources on MS Teams
 Validation Sorting and searching The roles of variables Fundamentals of Structured programming approaches 		Reading: Alevel textbook Home learning: as per lesson resources on MS Teams
Mid Term I	Break	
Logic bit and set operatorsAssessment		Reading: Alevel textbook

	Home learning: as per lesson
	resources on MS Teams
Number Systems	Reading: Alevel textbook
Number Bases	Home learning: as per lesson
	resources on MS Teams
Binary number system including floating points, two complement and	Reading: Alevel textbook
fractions	Home learning: as per lesson
ASCII & Unicode	resources on MS Teams
Error Checking	Reading: Alevel textbook
Bitmapped and Vector Graphics	Home learning: as per lesson
Analogue and Digital audio	resources on MS Teams
• Assessment	
Sound Compression & Nyquist theory	Reading: Alevel textbook
Sound Synthesis	Home learning: as per lesson
• Assessment	resources on MS Teams
Encryption	Reading: Alevel textbook
Hardware and software	Home learning: as per lesson
	resources on MS Teams
Mock preparations	Reading: Alevel textbook
	Home learning: as per lesson
	resources on MS Teams