Key Stage 4 Curriculum Map 2020 - 2021

Term 1

Subject: Computer Science		Year: 10	
Focus/Topic		**UAE Links**	**Home Learning / Reading**
Induction Week			
• Baseline assessments, curriculum orientation, expectations and MS Teams • Number bases/systems • Binary arithmetic			**Reading**: Theory textbook **Home learning**: as per lesson resources on MS Teams
• Hexadecimal • Character encoding			**Reading**: Theory textbook **Home learning**: as per lesson resources on MS Teams
• **Assessment - Data representation 01** • Representing images			**Reading**: Theory textbook **Home learning**: as per lesson resources on MS Teams
• Representing audio • Data compression			**Reading**: Theory textbook **Home learning**: as per lesson resources on MS Teams
• **Assessment - Data Representation 02** Feedback and improvements			**Reading**: Theory textbook revision
• Logic Gates • Application software • System Software			**Reading**: Theory textbook **Home learning**: as per lesson resources on MS Teams
Half Term			
• System Architecture • CPU and Fetch Execute Cycle • Magnetic Storage			**Reading**: Theory textbook **Home learning**: as per lesson resources on MS Teams
• Memory			**Reading**: Theory textbook

• Optical Storage • Cloud Storage		**Home learning**: as per lesson resources on MS Teams
• **Assessments – Computer Systems** Feedback and improvements		**Reading**: Theory textbook **Home learning**: as per lesson resources on MS Teams
• Network Types • Wired and Wireless • Topologies		**Reading**: Theory textbook **Home learning**: as per lesson resources on MS Teams
• Protocols • TCP/IP Model		**Reading**: Theory textbook **Home learning**: as per lesson resources on MS Teams
• **Assessments – Networking** Feedback and improvements		**Reading**: Theory textbook revision

• Security threats
    ○ Social Engineering
    ○ Malicious code
• Protecting techniques
• Penetration testing
		Reading: Theory textbook
		Home learning: as per lesson resources on MS Teams

Winter Break		