

## Key Stage 4 Curriculum Map 2021-22

### Term 2

Subject: Computer Science		Year: 10	
Focus/Topic	UAE Links	HPL Links	Home Learning/ Recommended Reading
<ul style="list-style-type: none"> <li>• Memory</li> <li>• Optical Storage</li> <li>• Cloud Storage</li> </ul>	Online storage in the UAE	<b>LINKING-Imagination</b> <b>EMATHETIC- Confident</b>	<b>Reading:</b> Theory textbook chapter 7 <b>Home learning:</b> resources as per phoenix
<b>Assessments – Computer Systems</b>			
Feedback and improvements			
<ul style="list-style-type: none"> <li>• Network Types</li> <li>• Wired and Wireless</li> <li>• Topologies</li> </ul>	Networking topologies within GFS	<b>CREATING- Fluent thinking</b> <b>HARD WORKING- Perseverance</b>	<b>Reading:</b> Theory textbook chapter 8 <b>Home learning:</b> resources as per phoenix
<ul style="list-style-type: none"> <li>• Protocols</li> <li>• TCP/IP Model</li> </ul>	How data is transferred over WAN's to and from the UAE	<b>LINKING-Big picture thinking</b> <b>AGILE- Creative and enterprising</b>	<b>Reading:</b> Theory textbook chapter 8 <b>Home learning:</b> resources as per phoenix
<b>Assessments – Networking</b>			
Feedback and improvements			
<ul style="list-style-type: none"> <li>• Security threats               <ul style="list-style-type: none"> <li>○ Social Engineering</li> <li>○ Malicious code</li> </ul> </li> <li>•</li> </ul>	Security in the UAE E.g. Security of EXPO network <a href="https://www.expo2020dubai.com/en/legal/privacy-and-cookies">https://www.expo2020dubai.com/en/legal/privacy-and-cookies</a>	<b>EMPATHETIC - Concerned for society</b> <b>ANALYSING- Critical or logical</b>	<b>Reading:</b> Theory textbook chapter 9 <b>Home learning:</b> resources as per phoenix
<b>Half Term</b>			
<ul style="list-style-type: none"> <li>• Protecting techniques</li> <li>• Penetration testing</li> </ul>	Security in the UAE Safe Public and Fair Judiciary	<b>EMPATHETIC - Concerned for society</b> <b>ANALYSING- Critical or logical</b>	<b>Reading:</b> Theory textbook chapter 9 <b>Home learning:</b> resources as per phoenix
<b>Assessment and improvements</b>			

<ul style="list-style-type: none"> <li>• The programming environment</li> <li>• Arithmetic operators</li> <li>• Data Types</li> </ul>	Software developers in the UAE	<b>CREATING- Intellectual playfulness</b>	<b>Reading:</b> Programming textbook <b>Home learning:</b> resources as per phoenix
<ul style="list-style-type: none"> <li>• Variable &amp; constant declaration</li> <li>• <b>Assignment – programming basics</b></li> </ul>	Data links to Emirates ID	<b>META-THINKING-Strategy planning</b> <b>ANALYSING-Complex and multi-step problem solving</b>	<b>Reading:</b> Programming textbook <b>Home learning:</b> resources as per phoenix
<ul style="list-style-type: none"> <li>• Casting</li> <li>• String and relation operators</li> </ul>	Manipulation of data types (casting) with Emirates ID's data entry	<b>AGILE- Enquiring</b> <b>ANALYSING - Precision</b>	<b>Reading:</b> Programming textbook <b>Home learning:</b> resources as per phoenix
<b>Spring Break</b>			