

## Key Stage 4 Curriculum Map 2020 - 2021

### Term 1

| Subject: Computer Science   | Year: 11   |  |
|---|--|--|
| Focus/Topic   | UAE Links  | Home Learning / Reading  |
| <ul style="list-style-type: none"> <li>• Induction week</li> </ul>  |  |  |
| <ul style="list-style-type: none"> <li>• Relational Databases &amp; Database Design</li> </ul>  | Emirates ID  |  |
| <ul style="list-style-type: none"> <li>• Database Design &amp; Structure Query Language</li> </ul>  | Emirates ID  |  |
| <b>Assessment – Databases and SQL</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>Reading:</b> Python textbook<br><b>Home learning:</b> as per lesson resources on MS Teams |
| <ul style="list-style-type: none"> <li>• Variable &amp; constant declaration</li> <li>• <b>Assignment – programming basics</b></li> </ul> |  | <b>Reading:</b> Python textbook<br><b>Home learning:</b> as per lesson resources on MS Teams |
| <ul style="list-style-type: none"> <li>• Casting</li> <li>• String and relation operators</li> </ul>                                      |  | <b>Reading:</b> Python textbook<br><b>Home learning:</b> as per lesson resources on MS Teams |
| <b>Half Term</b>  |  |  |
| <ul style="list-style-type: none"> <li>• Selection</li> </ul>   | McDonalds drive thru ordering system– Hessa Street | <b>Reading:</b> Python textbook<br><b>Home learning:</b> as per lesson resources on MS Teams |
| <ul style="list-style-type: none"> <li>• Nested Selection</li> <li>• <b>Assessment - Selection</b></li> </ul>                             | McDonalds drive thru ordering system– Hessa Street | <b>Reading:</b> Python textbook<br><b>Home learning:</b> as per lesson resources on MS Teams |
| <ul style="list-style-type: none"> <li>• Iteration</li> </ul>   |  | <b>Reading:</b> Python textbook<br><b>Home learning:</b> as per lesson resources on MS Teams |
| <ul style="list-style-type: none"> <li>• Iteration</li> </ul>   |  | <b>Reading:</b> Python textbook  |

|  |   |  |
|--|---|--|
|  |   | <b>Home learning:</b> as per lesson resources on MS Teams                                    |
| <b>Assessment - Iteration</b>  |   |  |
| <ul style="list-style-type: none"> <li>• Data Structures including: <ul style="list-style-type: none"> <li>○ 1D Arrays and Lists</li> <li>○ 2D Arrays</li> </ul> </li> </ul> | Lists/Arrays to store/sort the Emirates | <b>Reading:</b> Python textbook<br><b>Home learning:</b> as per lesson resources on MS Teams |
| <ul style="list-style-type: none"> <li>• Handling external data</li> </ul>   | Lists/Arrays to store/sort the Emirates | <b>Reading:</b> Python textbook<br><b>Home learning:</b> as per lesson resources on MS Teams |
| Winter Break   |   |  |