

## Key Stage 4 Curriculum Map 2021-22

### Term 3

| Subject: Computing   | Year: 10   |   |  |
|--|--|---|--|
| Focus/Topic  | UAE Links  | HPL Links   | Home Learning/<br>Recommended Reading  |
| <ul style="list-style-type: none"> <li>The programming environment</li> <li>Arithmetic operators</li> </ul> Data Types                                 | Software developers in the UAE                                     | <b>CREATING- Intellectual playfulness</b>   | <b>Reading:</b> Programming textbook<br><ul style="list-style-type: none"> <li><b>Home learning:</b> resources as per phoenix</li> </ul> |
| <ul style="list-style-type: none"> <li>Variable &amp; constant declaration</li> </ul> <b>Assignment – programming basics</b>                           | Data links to Emirates ID  | <b>META-THINKING-Strategy planning</b><br><b>ANALYSING-Complex and multi-step problem solving</b> | <b>Reading:</b> Programming textbook<br><ul style="list-style-type: none"> <li><b>Home learning:</b> resources as per phoenix</li> </ul> |
| <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><br><b>ANALYSING - Precision</b>   | <b>Reading:</b> Programming textbook<br><ul style="list-style-type: none"> <li><b>Home learning:</b> resources as per phoenix</li> </ul> |
| <ul style="list-style-type: none"> <li>Data Structures including:</li> <li>1D Arrays and Lists</li> </ul>  | Lists/Arrays to store/sort the Emirates                            | <b>CREATING-Originality</b>   | <b>Reading:</b> Programming textbook<br><ul style="list-style-type: none"> <li><b>Home learning:</b> resources as per phoenix</li> </ul> |
| <ul style="list-style-type: none"> <li>Data Structures including:               <ul style="list-style-type: none"> <li>2D Array</li> </ul> </li> </ul> | Lists/Arrays to store/sort the Emirates                            | <b>CREATING -Evolutionary and revolutionary thinking</b>  | <b>Reading:</b> Programming textbook<br><ul style="list-style-type: none"> <li><b>Home learning:</b> resources as per phoenix</li> </ul> |
| Catch up, reflections and improvements   |  |   | <b>Reading:</b> Programming textbook<br><ul style="list-style-type: none"> <li><b>Home learning:</b> resources as per phoenix</li> </ul> |
| <ul style="list-style-type: none"> <li><b>Mini assessment</b></li> </ul> Feedback, reflection and improvements   |  | <b>META THINKING – Self Regulation</b>  | <b>Reading:</b> Programming textbook<br><b>Home learning:</b> resources as per phoenix   |
| Retrieval practice - Theory  |  | <b>Linking – Big picture thinking</b>   | <b>Reading:</b> Programming textbook   |

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|---|--|---|---|
|   |  |   | <ul style="list-style-type: none"> <li>• <b>Home learning:</b> resources as per phoenix</li> </ul>                                      |
| <ul style="list-style-type: none"> <li>• Handling external data</li> </ul>                        | How do Computing Companies in Dubai read and right data from programs. | <i>AGILE- Creative and enterprising</i> | <b>Reading:</b> Programming textbook <ul style="list-style-type: none"> <li>• <b>Home learning:</b> resources as per phoenix</li> </ul> |
| <ul style="list-style-type: none"> <li>• Handling external data</li> </ul> <b>Mini assessment</b> | How do Computing Companies in Dubai read and right data from programs. | <i>AGILE- Creative and enterprising</i> | <b>Reading:</b> Programming textbook <ul style="list-style-type: none"> <li>• <b>Home learning:</b> resources as per phoenix</li> </ul> |
| <b>Summer Break</b>   |  |   |   |

\*Two weeks removed for mock examinations