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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 | Week 13 | Week 14 | Week 15 |
| Cycle 1 | **W/C 29/08** | **W/C 5/09** | **W/C 12/09**  | **W/C 19/09**  | **W/C 26/09**  | **W/C 3/10**  | **W/C 10/10**  | **W/C 17/10**  | **W/C 31/10**  | **W/C 7/100** | **W/C 14/11** | **W/C 21/11**  | **W/C 28/11** | **W/C 5/12** | **W/C 12/12** |
| **Term 1** **Training days 1 &2/09** |  |  |  |  |  |  |  | **Term 2** |  |  | *Data/Planning Day 17 &18th* |  |  | *School Closes 16th* |
|  |  |  |  |  |  |   |  |  |  |   |  |  |  |  |
| **W/C 2/01** | **W/C 9/01** | **W/C16/01** | **W/C 23/01** | **W/C 30/01** | **W/C 6/02** | **W/C 12/02** | **W/C 27/02** | **W/C 06/03** | **W/C 13/03** | **W/C 20/03** | **W/C 27/03** |  |  |  |
| Cycle 2 | **Term 3****School closed 2/1**  |  |  |  |  |  |  | **Term 4** | *Data/Planning Day 9th & 10th* |  |  | *School Closes 31st* |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |
| **W/C 17/04** | **W/C 24/04** | **W/C 1/5**  | **W/C 8/05** | **W/C 15/05**  | **W/C 22/05**  | **W/C 5/6** | **W/C 12/6** | **W/C 19/6** | **W/C 26/6** | **W/C 3/7** | **W/C 10/7** | **W/C 17/7** |  |  |
|  | **Term 5** |  | *School closed 1/05* |  |  |  | **Term 6** |  |  |  |  |  | *Data/Planning Day 19 &20th* | *School closed* |  |
| Cycle 3 |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |

Computer Science – Year 10

Long Term Plan 2022/2024

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|  | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 | Week 13 | Week 14 | Week 15 |
| Cycle 1 | **W/C 29/08** | **W/C 5/09** | **W/C 12/09**  | **W/C 19/09**  | **W/C 26/09**  | **W/C 3/10**  | **W/C 10/10**  | **W/C 17/10**  | **W/C 31/10**  | **W/C 7/100** | **W/C 14/11** | **W/C 21/11**  | **W/C 28/11** | **W/C 5/12** | **W/C 12/12** |
| **Term 1** **Training days 1 &2/09** |  |  |  |  |  |  |  | **Term 2** |  |  | *Data/Planning Day 17 &18th* |  |  | *School Closes 16th* |
|  | **Data Representation** Data storage units Binary  | Binary arithmetic Binary shift  | Hexadecimal  | Characters  | ASCII and Extended ASCII | Images   | Sound Compression  | **System Architecture** Architecture and Von Nuemann  | CPU Components  | Performance of the CPU   | Embedded systems  | Types of secondary storageVirtual memory Characteristics of SS | Review of learning  |  |
| **W/C 2/01** | **W/C 9/01** | **W/C16/01** | **W/C 23/01** | **W/C 30/01** | **W/C 6/02** | **W/C 12/02** | **W/C 27/02** | **W/C 06/03** | **W/C 13/03** | **W/C 20/03** | **W/C 27/03** |  |  |  |
| Cycle 2 | **Term 3****School closed 2/1**  |  |  |  |  |  |  | **Term 4** | *Data/Planning Day 9th & 10th* |  |  | *School Closes 31st* |  |  |  |
| **Networks** Types of networks IP Adresses and DNS MAC Addresses | TopologiesNetworking hardware  | Virtual networks Wireless networkingPacket Switching  | Encryption Client server and peer to peer  | *Transmission media*  | Network performance  | Standards protocols and layers  | **Network Security and Systems software** Identifying and Analysing forms of attack  | Prevention  | Operating Software | Utility Software |   |  |  |  |
| **W/C 17/04** | **W/C 24/04** | **W/C 1/5**  | **W/C 8/05** | **W/C 15/05**  | **W/C 22/05**  | **W/C 5/6** | **W/C 12/6** | **W/C 19/6** | **W/C 26/6** | **W/C 3/7** | **W/C 10/7** | **W/C 17/7** |  |  |
|  | **Term 5** |  | *School closed 1/05* |  |  |  | **Term 6** |  |  |  |  |  | *Data/Planning Day 19 &20th* | *School closed* |  |
| Cycle 3 | **Programming** Programming fundamentals  | Sequence and Selection  | Iteration   | Arrays  | Procedures and Functions  | Records and Files SQL  | **Algorithms** Computational thinking  | Searching Algorithms  | Sorting Algorithms  | Developing Algorithms – flowcharts  | Developing Algorithms - Pseudocode | Assessment  |  |  |  |

Computer Science – Year 11

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|  | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 | Week 13 | Week 14 | Week 15 |
| Cycle 1 | **W/C 29/08** | **W/C 5/09** | **W/C 12/09**  | **W/C 19/09**  | **W/C 26/09**  | **W/C 3/10**  | **W/C 10/10**  | **W/C 17/10**  | **W/C 31/10**  | **W/C 7/100** | **W/C 14/11** | **W/C 21/11**  | **W/C 28/11** | **W/C 5/12** | **W/C 12/12** |
| **Term 1** **Training days 1 &2/09** |  |  |  |  |  |  |  | **Term 2** |  |  | *Data/Planning Day 17 &18th* |  |  | *School Closes 16th* |
|  | Algorithms Computational thinking | **Searching algorithms**  | Sorting Algorithms Bubble  | Sorting Algorithms Insertion  | Sorting Algorithms Merge | **Developing Flowcharts**  | Developing Pseudocode | **Programming** Programming fundamentals  | Sequence and Selection  | Iteration   | Arrays  | Procedure and functions  | Records and files  | **SQL**  |
| **W/C 2/01** | **W/C 9/01** | **W/C16/01** | **W/C 23/01** | **W/C 30/01** | **W/C 6/02** | **W/C 12/02** | **W/C 27/02** | **W/C 06/03** | **W/C 13/03** | **W/C 20/03** | **W/C 27/03** |  |  |  |
| Cycle 2 | **Term 3****School closed 2/1**  |  |  |  |  |  |  | **Term 4** | *Data/Planning Day 9th & 10th* |  |  | *School Closes 31st* |  |  |  |
| Logic and Language Logic diagrams and truth tables  | Boolean Logic  | Defensive Design  | Errors and testing  | Translators and |Facilities  | *IDE*  | Python statements  |  |  |  |  |   |  |  |  |
| **W/C 17/04** | **W/C 24/04** | **W/C 1/5**  | **W/C 8/05** | **W/C 15/05**  | **W/C 22/05**  | **W/C 5/6** | **W/C 12/6** | **W/C 19/6** | **W/C 26/6** | **W/C 3/7** | **W/C 10/7** | **W/C 17/7** |  |  |
|  | **Term 5** |  | *School closed 1/05* |  |  |  | **Term 6** |  |  |  |  |  | *Data/Planning Day 19 &20th* | *School closed* |  |
| Cycle 3 |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |