OCR GCSE (9-1) Computer Science

# Overview of April - May: 2.2 Programming Techniques

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| Week | Statements | Teaching activities | Notes |
| 1 | The purpose and functionality of systems software | <http://www.canyoucompute.co.uk/l1-the-operating-system.html><http://www.canyoucompute.co.uk/l2-utility-software.html> |  |
|  | Operating systems:1. user interface
2. memory management/multitasking
3. peripheral management and drivers
4. user management
5. file management
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|  | Utility system software:1. encryption software
2. defragmentation
3. data compression
4. the role and methods of backup:- full- incremental
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| 2 | Creating a GUI with Python |  | <http://www.canyoucompute.co.uk/l3-gui-and-games.html> |
|  | End of Unit test |  | <http://www.canyoucompute.co.uk/l4-unit-test.html> |

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| 3 | An introduction to coding | <http://www.canyoucompute.co.uk/coding-intro.html> |  |
|  | The use of variables, constants, operators, inputs, outputs and assignments | <http://www.canyoucompute.co.uk/l1-programming-concepts.html> |  |

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| 4 | The use of the three basic programming constructs used to control the flow of a program:1. sequence
2. selection
3. iteration (count and condition controlled loops)
 | <http://www.canyoucompute.co.uk/l2-sequence-selection--iteration.html> |  |
|  | SSI Practice lesson | <http://www.canyoucompute.co.uk/l3-ssi-practice.html> |  |

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| 5 | The use of basic string manipulation | <http://www.canyoucompute.co.uk/l4-string-manipulation.html> |  |
|  | Caeser Cipher Python - cracking codes | <http://www.canyoucompute.co.uk/l5-secret-codes.html> |  |

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| 6 | The use of basic file handling operations:1. open
2. read
3. write
4. close
 | <http://www.canyoucompute.co.uk/l6-file-handling.html> |  |
|  | The use of records to store data | <http://www.canyoucompute.co.uk/l7-use-of-records-to-store-data.html> |  |

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| 7 | The use of SQL to search for data(Python Zoo) | <http://www.canyoucompute.co.uk/l8-sql.html> |  |
|  | The use of SQL to search for data(Python Zoo) | <http://www.canyoucompute.co.uk/l9-sql-python.html> |  |