# CY212 – Python camp for secondary computing to GCSE level

Monday 18th July 2016

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| **Date** | **Time** | Session | **Title** | **Presenter** | **Room** |
| 18th July 2016 | 9:30  10:00 |  | **Registration and refreshments** |  | STEM Centre |
| 10:00  10:35 | 0 | **Welcome** | AOD |  |
| 10:35  12:30 | 1 | **Why Python?**  - Meeting expectations  - Hello world  - Syntax errors and logical errors  - Building a ‘chatbot’ | AOD | TR4/5 |
| 12.30  13.30 |  | **Lunch** |  | Quarks |
| 13:30  15:00 | 2 | **Computational Thinking and Problem Solving**  - Datatypes and data representation  - Variables and operators  - Sequence, selection and iteration  - Documentation, support and resources | MWC | TR4/5 |
| 15.00  15.45 |  | **Break & Check In** |  | TR4/5 |
| 15:45  17:15 | 3 | **Code Jam**  - Agreeing a focus  - Developing solutions  - Sharing solutions  - GCSE computing coursework task | MWC | TR4/5 |
| 17:15 – 17:30 |  | **Break** |  | TR4/5 |
| 17:30 – 19:00 | 4 | **GCSE Computing CA**  - Analysing the problem, Design  - Designing solutions  - Developing and testing solution  - Assessing GCSE computing coursework tasks | MWC | TR4/5 |
| 19.00 |  | **Evening Meal** |  | Quarks |

Tuesday 19th July 2016

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| 19th July 2016 | 9:00  10:30 | 5 | **Python Refresher**  - Assignment. Data Types.  - Variables and operators  - Input & Output  - Flow control. Sequence, selection & iteration | AOD | TR4/5 |
| 10:30  11:00 |  | **Break** |  | TR4/5 |
| 11:00  13:00 | 6 | **Data Structures and File Handling**  - Manipulating arrays, lists, stacks & queues  - File handling operations - reading & writing  - Documentation, support and resources | MWC | TR4/5 |
| 13:00  14:00 |  | **Lunch** |  | Quarks |
| 14:00  15:00 | 7 | **GCSE Computing Programming Assignment pt 1**  - Analysing the problem, Design  - Designing solutions  - Developing and testing solution  - Assessing GCSE computing coursework tasks | MWC | TR4/5 |
| 15:00  15:30 |  | **Break** |  | TR4/5 |
| 15:30 – 17:30 | 8 | **GCSE Computing Programming Assignment pt 2** | MWC | TR4/5 |
| 17:30 – 17:45 |  | **Break** |  | TR4/5 |
| 17:45 – 19:00 | 9 | **GCSE Computing Programming Assignment pt 3** | MWC | TR4/5 |
| 19.00 |  | **Dinner** |  | Quarks |

Wednesday 20th July 2016

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| 20th July 2016 | 9:00  10:00 | 10 | **Understand Requirements of The Examined Component**  - Choosing the most appropriate specification for your school  - Overview of the examined component(s)  - Review of available resources to support your teaching | MWC | TR4/5 |
| 10:00  10:30 | 11 | **Planning for Delivery**  - Planning topics to fit time available  - Teaching strategies and approaches | MWC | TR4/5 |
| 10.30  11:00 |  | **Break** |  | TR4/5 |
| 11:00  12:30 | 12 | **Measure, Track & Monitor Progress**  - Strategies to measure pupil attainment  - Tracking & monitoring pupil progress  - Parental engagement | AOD | TR4/5 |
| 12:30 |  | **Lunch** |  | Quarks |
| 13:30  15:15 | 13 | **Exam Preparation**  - Styles of exam questions  - Designing a revision programme  - Revision techniques | MWC | TR4/5 |
| 15:15 | 14 | **Action planning and evaluations** | AOD | TR4/5 |
| 16:00 |  | **Depart** |  |  |