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 |
| 10:0010:35 | 0 | **Welcome** | AOD |  |
| 10:3512:30 | 1 | **Why Python?**- Meeting expectations- Hello world- Syntax errors and logical errors- Building a ‘chatbot’ | AOD | TR4/5 |
| 12.3013.30 |  | **Lunch** |  | Quarks |
| 13:3015:00 | 2 | **Computational Thinking and Problem Solving**- Datatypes and data representation- Variables and operators- Sequence, selection and iteration- Documentation, support and resources | MWC | TR4/5 |
| 15.0015.45 |  | **Break & Check In** |  | TR4/5 |
| 15:4517:15 | 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 | 9:0010:30 | 5 | **Python Refresher**- Assignment. Data Types.- Variables and operators- Input & Output- Flow control. Sequence, selection & iteration | AOD | TR4/5 |
| 10:3011:00 |  | **Break**  |  | TR4/5 |
| 11:0013:00 | 6 | **Data Structures and File Handling**- Manipulating arrays, lists, stacks & queues- File handling operations - reading & writing- Documentation, support and resources | MWC | TR4/5 |
| 13:0014:00 |  | **Lunch** |  | Quarks |
| 14:0015:00 | 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 |
| 15:0015:30 |  | **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 | 9:0010:00 | 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 |
| 10:0010:30 | 11 | **Planning for Delivery**- Planning topics to fit time available- Teaching strategies and approaches | MWC | TR4/5 |
| 10.3011:00 |  | **Break** |  | TR4/5 |
| 11:0012:30 | 12 | **Measure, Track & Monitor Progress**- Strategies to measure pupil attainment- Tracking & monitoring pupil progress- Parental engagement | AOD | TR4/5 |
| 12:30 |  | **Lunch** |  | Quarks |
| 13:3015:15 | 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** |  |  |