KS4 GCSE Computing

OCR GCSE in Computing J277

Director of Faculty: Mrs V Moloney (email v.moloney@parrswood.manchester.sch.uk)
Head of Computing: Mr R Grant (email r.grant@parrswood.manchester.sch.uk)

Topics studied:

Theory
100% of the final award is made through 2 written theory examinations. Pupils have to cover a wide range of Computing subject knowledge / theory as summarised below:

J277/01: Computer systems	J277/02: Computational thinking, algorithms and programming
1.1 Systems architecture 1.2 Memory and storage 1.3 Computer networks, connections and protocols 1.4 Network security 1.5 Systems software 1.6 Ethical, legal, cultural and environmental impacts of digital technology	• 2.1 Algorithms • 2.2 Programming fundamentals • 2.3 Producing robust programs • 2.4 Boolean logic • 2.5 Programming languages and Integrated Development Environments

Assessments
External Assessments - 2 exam papers
As means of on-going assessment in order to prepare pupils for the final written theory examination, pupils will be set weekly tasks for completion by their class teacher. These will be assessed and detailed feedback offered to pupils enabling them to develop their understanding of the subject.

Paper 1 Computer Systems   Written exam in Year 11 50%   80 Marks
Paper 2 Computational thinking   Written exam in Year 11 50%   80 Marks

Practical Programming
All students will be given the opportunity to undertake a programming task(s), either to a specification or to solve a problem (or problems), during their course of study. Students may draw on some of the content in both components when engaged in Practical Programming.

Homework

Pupils will be given a piece of written or online homework each week covering both the theoretical and practical aspects of the course.

Other useful information
- Weekly revision sessions
- All resources on Google Classroom
- Core CPG revision text book available for every student
- http://usingpython.com/
- How Stuff Works http://computer.howstuffworks.com/
- Teach ICT GCSE Computing http://www.teach-ict.com/gcse_computing.html
- GCSE Computing.org.uk http://gcsecomputing.org.uk/

- SmartRevise

- Educake