

**Subject:** Computer Science & ICT

**Subject lead:** Mrs R Orme

### **What is provided at KS3 and/or at KS4**

At Key Stage 3 students study Computer Science in accordance with the National Curriculum.

During year 9 students complete the Functional Skills Level 2 in ICT

At year 10 and 11 students complete a GCSE in ICT

### **Why do we teach this subject?**

KS3 Computer Science: Pupils are taught the principles of information and computation, how digital systems work, and how to put this knowledge to use through programming. Building on this knowledge and understanding, pupils are equipped to use information technology to create programs, systems and a range of content. Computing also ensures that pupils become digitally literate – able to use, and express themselves and develop their ideas through, information and communication technology – at a level suitable for the future workplace and as active participants in a digital world.

Year 9 Functional Skills ICT: Is designed to equip learners with the confidence and ability to use ICT systems and tools, and find, select, develop, present, and communicate information. Studying these areas allows students to become competent users of ICT, which will support their future learning and career.

Year 10 and 11 ICT GCSE: Encourages the investigation and study of Information and Communication Technology in a variety of contexts. In these situations, students are given opportunities to acquire competence, capability and critical skills through the creation, implementation, use and evaluation of a range of information and communication systems.

### **What do pupils gain from it/how do they benefit?**

Pupils will be able to analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems. They will evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems. Pupils will also be responsible, competent, confident and creative users of information and communication technology.

**Any statutory requirements?**

Computing is a compulsory national curriculum subject at KS3 and a 'foundation' subject at KS4.