

Statement of Intent - Computer Science

The Computer Science department promotes a love of programming and use of computers and strives for pupils to succeed in making themselves and others proud, building fundamental skills they need for their futures. We believe that an environment where failure is accepted and used to build self-confidence, as well as resilience, is key for a healthy mind and body.

Throughout KS3 and KS4 the Computer Science curriculum aims to develop the pupil's ability to understand the digital world that they are part of. This includes: the understanding of how the internal components of computers communicate and work together; how computer networks function and the rules that apply to programming. Pupils study both visual programming using Scratch, as well as text-based programming using Python. Pupils often work in teams or pairs to use these tools to solve problems logically and develop their teamwork. This teamwork will ensure pupils grow in humanity and kindness towards others as well as succeeding in building positive relationships.

Programming is becoming a useful skill as the number of jobs in this area are expanding. The digital world is full of complexities and the curriculum ensures that pupils leave school with an understanding of e-safety and believe in respecting themselves and others.