

Year 7

Pupil will learn aspects of e-safety, which will help them identify and understand the uses of technology in a responsible and safe way. They will explore the use of computer models, handle binary numbers and use programming languages to solve computational problems. Pupils will also undertake a creative project that will provide the opportunity for them to use a range of software applications.

Year 8

Pupils will further explore e-safety topics to understand how to recognise inappropriate content, contact and conduct when using communication devices as well as how to report these. They will investigate computer components and how systems store and execute instructions. They will learn to use binary digits to manipulate text, sound and images. Pupils will develop programming skills and will undertake a creative project combining multiple editing software applications and techniques. Pupils will develop their understanding of cryptography through history and how this has shaped security in digital world today.

Year 9

Pupils will be given the opportunity to explore cyber security and computer forensics topics to help them to identify and understand the legislative issues when using computer systems, ethics, health & safety and other topics related to computer forensics. They will investigate the use and construction of database managements systems to store and use data. Pupil will explore the uses of spreadsheet modelling and how these are used and built to make predictive models. Pupils will further develop their programming skills. They will undertake a creative project with challenging goal combining multiply video and image editing software applications and techniques to complete a given task. Pupils will also combine their creative and programming skills to develop a website using HTML and CSS.

- Reading around the topics (online or books)
- Practical challenges set using online resources.
- Additional help with practical work
- Use of Computing Clubs
- Looking at exemplars of work.



Computing
