

Computer Science

Year 8

Please use this Route Through to learn more about what students are learning in lessons, and how they can extend their learning at home. Please contact the Head of Department or Director of Year for more information.

Subject	What are students learning in lessons?	What could students do to extend their learning and develop their character?
Autumn Term 1	Computer Hardware and Software: the definition of a computer, function of internal computer components.	Be curious: research the components in the first ever iMac. Make a fact file about the first ever iMac.
Autumn Term 2	Computer Hardware and Software: building a computer, operating system and Boolean logic.	Be responsible: create a buyer's guide recommending computer components for a student computer.
Spring Term 1	Web Design: what HTML is, text formatting, styles and CSS.	Be curious: review three websites and create a guide explaining what makes a website effective.
Spring Term 2	Web Design: hyperlinks, photos and creating a website project.	Be focused: create a blog webpage on one of your hobbies.
Summer Term 1	Cyber Security: data and data protection, social engineering and computer misuse.	Be curious: research the ILOVEYOU malware and create a one-page case study explaining its impact and how users can protect themselves.
Summer Term 2	Cyber Security: malware, malware protection, encryption and encryption/decryption project.	Be curious: investigate worms and viruses. Create a poster on their differences and similarities. Include how people can protect themselves against this malware.
How should I plan my time?	Assessment	Home Learning
	Students think hard and answer lots of questions every lesson. Students practice and get feedback on their work. Exam: Students will not sit an exam.	Character tasks to continue the joy of learning beyond the classroom.