

Computer Science

Year 9

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	Cyber Phronesis: online conduct, the effects of cyberbullying and moral dilemmas in a digital context.	Be courageous: create a poster to show others how to have positive online behaviour.
Autumn Term 2	Cyber Phronesis: use of excel, data representation, data analysis and cyber phronesis project on digital awareness using data.	Be courageous: create a campaign poster explaining how to respond to cyberbullying.
Spring Term 1	Python Programming: syntax, inputs, outputs, identifiers and data types.	Be curious: research the history of Python and create a timeline showing its development and uses today.
Spring Term 2	Python Programming: creation of programs using if, elif and else statements. creation of programs using while and for loops.	Be curious: design a quiz game and create a flowchart showing how if, elif and else statements are used.
Summer Term 1	Computational Thinking: computational strategies and techniques to display, reduce the complexity and solve problems.	Be focused: solve a worded maths problem using computational thinking. Create a flowchart showing your thinking.
Summer Term 2	Computational Thinking: application of abstraction, decomposition and algorithmic thinking to in school and real life uses.	Be curious: choose an everyday task and create a step-by-step guide showing how decomposition and algorithmic thinking can solve it.
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.