

Y11 COMPUTER SCIENCE

COMPUTER SCIENCE AT YARDLEYS

INTENT: Through our ambitious computing curriculum our learners will have access to a broad and balanced range of topics including: digital literacy, computational thinking and modern technology. Yardley’s computing curriculum will provide students with an understanding of how computing underpins today’s modern lifestyle and has made the world better, faster and more connected. We ensure that the students at Yardleys can develop to become masters and creators in this field, to aid them in their development of our rapidly changing technological world.

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In year 11 students will be required to apply their knowledge of programming and different languages and IDE to their work.

Year 11

	Programming techniques Robust Programs	Computational Logic Languages and IDE	Exam Preparation
SUBSTANTIVE KNOWLEDGE	Programming using Python Testing Errors Validation	Computer systems Computational thinking Programming using Python Algorithms	
DISCIPLINARY KNOWLEDGE (primary focus in capitals)	Use of Programming language Use simple arithmetic expressions in assignment statements to calculate values Sequencing and selection Understanding of Integers Role of Iteration	Understand key concepts and principles of CS Learn to design, write, test and refine algorithms and programs Use of Programming language Revision techniques	