

Y9 Computing



IT 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 9 students will further enhance their ability to programme through the use of new programming software. They will spend time developing and understanding and the application of different algorithms.

Year 9

	Introduction to Python Python Sequences	Media Animations Data Science	Representations Cyber security
SUBSTANTIVE KNOWLEDGE	Awareness of syntax errors Block based programming language Decomposition Variables Sequencing and selection	Media 3D animations Shape Proportions Symmetry Data sets	Images – pixels Resolution Colour depth Sample rate & size Legislation DOS attack Authentication Networks
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	Use blender - deleting and adding objects; moving, rotating, scaling, and colouring Identify patterns and trends	Calculate size of image Image editing techniques Understand implication of cyber attacks