Y8 COMPUTING

Yardleys School
WORKING TOGETHER FOR A BETTER FUTURE

COMPTING 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.
Y8 COMPUTING AT YARDLEYS
In year 8 students will develop a greater understanding and use of different software skills. They will have the opportunity to create some apps and build on prior learning of programming

Year 8

	Computer Systems Networks	Developing for the web Representations	App development Introduction to Python
SUBSTANTIVE KNOWLEDGE	Hardware/Architecture Logic gates Operating systems Machine learning/Artificial Intelligence Networks/connectivity Internet Protocols	HTML/tags CSS Images Binary Units	Use of binary selection Awareness of syntax errors Block based programming language Decomposition Variables Sequencing and selection
DISCIPLINARY KNOWLEDGE (primary focus in capitals)	Explain the difference between a general-purpose computing system and a purpose-built device How logical operators are used to form logical expressions Understand how instructions are stored Compare networks	Use, modify, apply HTML Use CSS Use search technology Create hyperlinks Conversions – decimal to binary/vice versa Convert between different units	Use of Programming language Use simple arithmetic expressions in assignment statements to calculate values Sequencing and selection Understanding of Integers Role of Iteration

We aim to provide students with a curriculum that educates the whole child, creating responsible and respectful citizens. Through the development of substantive and disciplinary knowledge students are given the tools that allow them to achieve excellence and be ready for life.