ST ST ST STATE OF THE PARTY OF

BISHOP VESEY'S GRAMMAR SCHOOL

COMPUTING

Curriculum Intent and Overview (Years 7-11)

Intent Statement

Computers have transformed the way we work and both people and machines are changing constantly in the modern world. At BVGS in the Computer Science department we aim for all students to become:

- Problem solvers have the ability to analyse and solve problems and to design, implement and deploy algorithms to solve real problems
- Logical thinkers apply the concepts of abstraction, decomposition and logic
- Creative innovate, analyse and think critically in solving problems
- Aware understand the impact that technology has on people and on the wider society
- ICT Capable be able to use computer software applications and programs with confidence and skill to become global citizens.

		MICHAELMAS TERM	LENT TERM	SUMMER TERM
	Year 7	 Algorithms - VEX Programming Hardware & Software 	 Data Rep 1 – Binary/Denary Algorithms - Web Coding - HTML 	 Algorithms - Python Programming 1 - Basics
KEY STAGE 3	Year 8	 Algorithms - Flowol / Flowcharts Algorithms - Micro:bit Programming 	 Data Rep 2 – Hex/ASCII/Bitmaps Algorithms - Web Coding 2 – HTML & CSS 	 Algorithms - Python Programming 2 – Basics 2 Spreadsheets
	Year 9	 Algorithms - Flowcharts Computer Crime & Security 	 Data Rep 3 – Sound/Logic Gates Algorithms - Python Programming 3 – More Basics 3 	Issues in ComputingComputer Networks



BISHOP VESEY'S GRAMMAR SCHOOL

COMPUTING

Curriculum Intent and Overview (Years 7-11)

Year 10	Theory – Data Representation	Theory – Hardware &	Theory – Issues in Computing
	 Programming – Python Basics 	Software	Programming – Python
			Advanced
		Advanced	
Year 11	Theory – Computer Networks	Programming – Programming	Theory – revision
	 Theory – Cyber Security 	Project	 Programming - revision
	 Programming - Revision 	 Database – Access & SQL 	
		 Programming – Python Basics Year 11 Theory – Computer Networks Theory – Cyber Security 	 Programming – Python Basics Programming – Python Advanced Year 11 Theory – Computer Networks Theory – Cyber Security Programming – Programming Project