KS3 COMPUTER SCIENCE/ FUNCTIONAL SKILLS ICT CURRICULUM MAP

YEAR	Autumn		Spring		Summer	
Year 7	Impact of technology. online security Respectful communication cyberbullying	Support for a cause. Researching PowerPoint presentation on promoting your cause.	Networks Internet World wide web	_	Programming essentials in scratch. • Variables • Selection • iteration	Programming 2 Decomposing Solving problems
Year 8	Design vector graphics Combining multiple tools and techniques to create vector graphic design.	Computing systemsComputer hardwareSystem architectureOperating systems	Website building blocks HTML tags CSS Hyperlinks	Presentation Coding Binary digits Conversion between units.	 Mobile app development Programming Decomposition Variables Presentation 	Intro to python • Algorithm • Boolean variables
Year 9	 Using blender to add/delete/move objects. Making a stopframe animation. 	 Identifying data 	 Data protections act Computer misuse act Security threats 	Representations going audio visual Digital images Binary representations of images and sounds	Creating listsSelectionIteration	Physical computing • Micro bit
Year 11 ICT functional Skills	Making the most of your computer	0 0	Finding and selecting information Construct efficient searches Acknowledging sources	data • Record handling	Working with numbers and charts • Produce charts and graphs • Format data	Working with texts and images/combining and presenting information. • Work with tables • Editing images • Creating layouts

GCSE COMPUTER SCIENCE/ FUNCTIONAL SKILLS ICT CURRICULUM MAP							
						Plan a publication	
Year 10 GCSE Computer Science	• CPU	Storage	Networks WANS & LANS Topologies Protocols layers Hardware Ethernet	System security	Operating systems OS Utility software	Impacts on society Key stakeholders Open source vs proprietary software Legislation	

	Virtual memoryFlash memory		• Packet switching	Identifying, preventing vulnerabilitiesOSUtility software		
Year 11 GCSE Computer Science	Algorithms	VariablesOperatorsSequencesData typesSub-programs	Defensive design • Testing	Boolean logicBinary formLogic diagramsTruth tables	 Programming languages Low- and high-level languages Translators Compilers Interpreters IDE 	