

Computing – Year 1			
Computing intent		Vocabulary	
Aims	<ul style="list-style-type: none"> <li>can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation</li> <li>can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems</li> <li>can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems</li> <li>are responsible, competent, confident and creative users of information and communication technology.</li> </ul>	algorithm, program, interactive, website, internet, digital, online, device, search, organise, retrieve, present, image, text, password, login, username, private, safe, respect, online safety, debug, create, logic, code, precise, instructions, steps, predict, create, organise, store, manipulate, retrieve, data	
	Knowledge and skills	Useful Units	Outcomes
Digital Literacy	<ul style="list-style-type: none"> <li>use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.</li> <li>recognise common uses of information technology beyond school</li> </ul>	iAlgorithm – unplugged activities to support understanding of algorithms iSafe – eSafety iDraw – exploring digital art iModel – introduction of modelling	Exploring and creating digital art Manipulating and storing data Programming a toy Using a computer model Representing data Use algorithms
Information Technology	<ul style="list-style-type: none"> <li>use technology purposefully to create, organise, store, manipulate and retrieve digital content</li> </ul>	iProgram – programming physical and virtual toys iWrite – creating, manipulating and storing digital text iData – introduction to data representation iDraw - exploring digital art iModel – introduction of modelling	<b>Cross-curricular links</b> iAlgorithm – DT, English, Maths, Music, PE iSafe – PSHE iDraw – Art iModel – Art, English iProgram – English, Geography, Maths iWrite – English iData - Maths
Computer Science	<ul style="list-style-type: none"> <li>understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions</li> <li>use logical reasoning to predict the behaviour of simple programs</li> <li>create and debug simple programs</li> </ul>	iAlgorithm – unplugged activities to support understanding of algorithms iProgram – programming physical and virtual toys iWrite – creating, manipulating and storing digital text iData – introduction to data representation	