

Computing – Year 6			
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>	detect, sensing, model, clients, routers, IP address, DNS, network, www, server, decomposition, detect, simulation, abstraction, app, syntax, function, comment, search engine, rank, web crawler, online identity, consent, social media, analyse, spreadsheet	
	Knowledge and skills	Useful Units	Outcomes
Digital Literacy	<ul style="list-style-type: none"> <li>use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> <li>Understand the opportunities networks offer for communication and collaboration.</li> <li>use search technologies effectively, appreciate how results are selected and ranked, and <u>be discerning in evaluating digital content</u></li> </ul>	iProgram (1) – Designing and developing computer games iProgram (2) – Designing and developing 3D animations iApp (1 & 2) – Designing and developing Apps iSafe – Staying safe in a digital world	Design and create a computer game Design and create 3D animations Design and create an App Using 3D models Understanding networks Creating web content Using spreadsheets
Information Technology	<ul style="list-style-type: none"> <li>select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> <li><u>use search technologies effectively</u>, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</li> </ul>	iApp (1 & 2) – Designing and developing Apps iData – Introducing spreadsheets iModel – 3D graphical modelling	<b>Cross-curricular links</b> iProgram (1) – Art, Maths, Science iProgram (2) – Art, English, Maths iApp – Art, English, Maths, Music, Science iData – Maths iModel – Art, DT, Geography, Maths, Science
Computer Science	<ul style="list-style-type: none"> <li>design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</li> <li>use sequence, selection, and repetition in programs; work with variables and various forms of input and output.</li> <li>use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</li> <li>understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration.</li> <li>use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</li> </ul>	iProgram (1) – Designing and developing computer games iProgram (2) – Designing and developing 3D animations iApp (1 & 2) – Designing and developing Apps iNetwork – Networks, data and creating web content iModel – 3D graphical modelling	