

COMPUTING	Key Stage 1		Key Stage 2			
Computer Science						
Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Units of work	Unit 1: Introduction to computers. Unit 2: Introduction to digital imaging devices. Unit 3: Introduction to algorithms. Unit 4: Introduction to word processing.	Unit 1: Word processing using the keyboard. Unit 2: Data handling. Unit 3: E-safety. Unit 4: Introduction to basic coding commands.	Unit 1: Word. Creating various documents. Unit 2: Publisher. Creating posters-using graphics. Unit 3: Data Handling.	Unit 1: Touch Typing. Unit 2: E- Safety. How do we stay safe online? Unit 3: Coding building block programs.	Unit 1: Introduction to email. Unit 2: Coding. Creating Repeat procedures. Unit 3: internet safety. Unit 4: Using computers to create artwork.	Unit 1: Data handling (excel) Unit 2: Coding with Kodu. Design a computer game. Unit 3: PowerPoint-using hyperlinks.
Algorithms	Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.		Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.			
Programming	Create and debug simple programs use logical reasoning to predict the behaviour of simple Programs.		Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts; use sequence, selection, and repetition in programs; work with variables and various forms of input and output.			
Information and communication technology						
Using devices	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.		Use ICT for collecting, analysing, evaluating and presenting data and information.			
Security, safety and privacy	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.		Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.			
Networks			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.			
Websites and Apps			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.			
Search engines			Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.			