Eton Wick C of E First School

Computing Sequence of Content (Table 1)

Computer Science		
Curriculum Aims	**KS1 Content**	**KS2 Content**
• To understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation • To be able to analyse problems in computational terms, and have had repeated practical experience of writing computer programs in order to solve such problems	• understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions (knowledge) • create and debug simple programs (skills) • use logical reasoning to predict the behaviour of simple programs (skills)	• design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems (skills) • solve problems by decomposing them into smaller parts (skills) • understand and use sequence, selection, and repetition in programs; work with variables and various forms of input and output (knowledge and skills) • use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs (skills)
Information Technology		
• To be able to evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems	• use technology purposefully to create, organise, store, manipulate and retrieve digital content (skills)	• 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 (skills)

Digital Literacy		
• To become responsible, competent, confident and creative users of information and communication technology.	• recognise common uses of information technology beyond school (knowledge) • use technology safely and respectfully (skill) keeping personal information private (knowledge) • identify where to go for help and support when they have concerns about content or contact on the Internet or other online technologies (knowledge)	• 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 (knowledge) • use search technologies effectively (skill) • appreciate how results are selected and ranked (Knowledge) • Be discerning in evaluating digital content (skill) • Use technology safely, respectfully and responsibly (skill) • recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact (knowledge)