

Iver Village Infant Academy Curriculum

Computing Curriculum Overview		Subject Overview	
Key Concepts	Coding Connecting Communicating Collecting	Topics covered: Online safety Algorithms Digital content Information Technology	
Objectives to cover (Directly from NC)	<p>A high-quality computing education equips pupils to use computational thinking and creativity to understand and change the world. Computing has deep links with mathematics, science, and design and technology, and provides insights into both natural and artificial systems. The core of computing is computer science, in which pupils are taught the principles of information and computation, how digital systems work, and how to put this knowledge to use through programming. Building on this knowledge and understanding, pupils are equipped to use information technology to create programs, systems and a range of content. Computing also ensures that pupils become digitally literate – able to use, and express themselves and develop their ideas through, information and communication technology – at a level suitable for the future workplace and as active participants in a digital world.</p> <p>Pupils will be taught to:</p> <ul style="list-style-type: none"> • understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions • create and debug simple programs • use logical reasoning to predict the behaviour of simple programs • use technology purposefully to create, organise, store, manipulate and retrieve digital content • recognise common uses of information technology beyond school ☒ 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. 		
	Autumn Term	Spring Term	Summer Term
Year 1	Online safety Algorithms and Coding	Online safety Digital Content	Online safety Information Technology
Year 2	Online safety Algorithms and Coding	Online safety Digital Content	Online safety Information Technology