



The Bishop Harvey Goodwin Long Term Plan computing

Cycle A EYFS Characteristics of Learning • playing and exploring • active learning • creating and thinking critically		Key Stage One a. understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions b. create and debug simple programs c. use logical reasoning to predict the behavior of simple programs d. use technology purposefully to create, organize, store, manipulate and retrieve digital content e. Recognise common uses of information technology beyond school f. 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	Key Stage Two A. design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts B. use sequence, selection, and repetition in programs; work with variables and various forms of input and output C. use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs D. 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 E. use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content F. 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, analyzing, evaluating and presenting data and information G. use technology safely, respectfully and responsibly; recognize acceptable/unacceptable behaviour; identifying a range of ways to report concerns about content and contact		
	EYFS / Year One	Year Two / Three	Year Three / Four	Year Five	Year Six
Autumn <i>Who am I ?</i> <i>How should we act and be ?</i>	Welcome to PM Online Safety Lego Builders	Online Safety Coding	Online Safety Coding	Online Safety Coding	Online Safety Coding
Spring <i>What do we want and need to succeed?</i>	Grouping and Sorting Pictograms Technology in school / around us	Effective searching Spreadsheets	Logo Animation Hardware	Spreadsheets / Databases Game	Spreadsheets Blogging
Summer <i>How can we get along together ?</i>	Story Books – photos/drawing Coding / Robots	Creating Pictures Presenting Idea	Into to AI (Email) Making Music	3d modelling External devices	Binary Networks Quizzing