Ashton Hayes Primary School - Computing Long Term Plan

	AUTUMN Computer Science SUMMER Information technology SPRING Digital Literacy										
	Programming	Creating digital content	Understanding the role of technology								
KS1	 Understand what algorithms are and that programs execute by following instructions Understand that programs follow precise and unambiguous instructions Create and debug simple programs Use logical reasoning to predict the behaviour of simple programs, for example: Beebot> Kodable> Daisy Dino> Scratch Jr. 	Use technology purposefully to create, organise, store, manipulate and retrieve digital data content, for example:	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								
LKS2	 Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web Design, write and debug programs that accomplish specific goals (control system or simulation using problem solving into smaller parts) Use logical reasoning to explain how some simple algorithms/programs work, including: detect and correct errors (e.g. in Kodu, Scratch) Use selection, sequence and repetition in programs Work with variables and various forms of input and output 	Use search technologies effectively Select, use and combine a variety of software Use a range of devices to design and create digital content (system or program) to accomplish given goals Including: Collecting, analysing, evaluating and presenting data	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour, identify a range of ways to report concerns about content and contact								
UKS2	 Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web Design, write and debug programs that accomplish specific goals (control system or simulation using problem solving into smaller parts) Use logical reasoning to explain how some simple algorithms/programs work, including: detect and correct errors (e.g. in Kodu, Scratch) Use selection, sequence and repetition in programs Work with variables and various forms of input and output 	 Use search technologies effectively Select, use and combine a variety of software Use a range of devices to design and create digital content (system or program) to accomplish given goals Including: Collecting, analysing, evaluating and presenting data Suggestions: Touch typing Composing: emails/blogs, 	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour, identify a range of ways to report concerns about content and contact Be discerning in evaluating digital content Understand opportunities for collaboration and communication								
	 Appreciate how search results are selected and ranked Suggestions: Controlling physical systems (Raspberry PI/Scratch) Write a program to randomly choose from lists (word generator) Write a program with inputs, outputs, conditions and variables (Multi-player game in Scratch) 	Recording podcasts Creating stop animation/time-lapse video									

Ashton Hayes Primary School – Computing Progression of Skills

	Computer Science					Information Technology			Digital Literacy				
YEAR 1	Understands what algo	orithms are	Creates simp	le programs			Uses technology purposefully to create digital content	Uses technology purposefully to store digital content	Uses technology purposefully to retrieve digital content		Uses technology safely	Keeps personal information private	Recognises common uses of information technology beyond school
YEAR 2	Understands that algorithms are implemented as programs on digital devices	Debugs simple programs	Understands programs ex following pre unambiguou	ecute by		reasoning to behaviour of rams	Uses technology purposefully to organise digital content	Uses technology purposefully to manipulate digital content			Uses technology respectfully	Identifies where to go for help and support when they have concerns about content or contact on the internet or other online technologies	
YEAR 3	Writes programs that accomplish specific goals	Uses sequence ir programs	Works with v	rarious forms	Work with v output	arious forms of	Uses search technologies effectively	Uses a variety of software to accomplish given goals		Presents nformation	Uses Identifies a range of ways to report concerns about contact responsibly		
YEAR 4	Designs and creates programs that accomplish specific goals	Debugs program that accomplish specific goals	Uses repetition in programs	Controls or simulates physical systems	Uses logical reasoning to detect and correct errors in programs	Understands how computer networks can provide multiple services, such as the World Wide Web	Analyses and evaluates information	Selects, uses and combines a variety of software	Collects data	Presents data	Identifies a range of ways to report concerns about content	Recognises acceptable/un behaviour	acceptable
YEAR 5 & 6 UKS2	Design and debug: solve problems by decomposing them into smaller parts		reasoning to explain how some	Detect and correct errors in algorithms	Understand computer networks, including the interne		Combines a variety of software to accomplish given goals	Selects, uses and combines software on a range of digital devices	Analyses and evaluate data		Understands the opportunities computer networks offer for collaboration	Is discerning in evaluating digital content	Use technology respectfully & have understanding of social media laws including identity fraud