Computing Curriculum KS1

Objective Pupils….	Year 1							Year 2						
	iAlgorithm	iWrite	iData	iProgram – Unit 1	iModel	iProgram – Unit 2	iSafe – Unit 2	iProgram	iSafe – Unit 1	iSearch	iAnimate	iPub	iBlog	iDo Mail
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.		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓

Computing Curriculum Lower KS2

Objective Pupils…	Year 3						Year 4						
	iProgram	iAlgorithm	iSafe	iSimulate	iConnect	iDo WeDo	iProgram	iData	iMail	iSafe	iAnimate	iDo WeDo	Program – Unit 3
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	✓	✓		✓	✓	✓	✓	✓			✓	✓	✓
use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓
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	✓		✓	✓	✓		✓	✓	✓	✓	✓		✓
use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content	✓		✓	✓	✓		✓	✓	✓	✓	✓		✓
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	✓	✓		✓	✓		✓	✓	✓		✓		✓
use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	✓		✓	✓	✓		✓	✓	✓	✓	✓		✓

Computing Curriculum Upper KS2

Objective Pupils…	Year 5						Year 6					
	iProgram (Unit 1)	iAlgorithm	iSafe	iWeb	iProgram (Unit 2)	iCrypto	iProgram (Unit 1)	iNetwork	iProgram – Unit 2	iApp – Unit 1	iApp – Unit 1	iSafe 9 weeks
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	✓	✓			✓	✓	✓	✓	✓	✓	✓	
use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	✓	✓		✓	✓	✓	✓		✓	✓	✓	
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	✓		✓	✓	✓		✓	✓	✓	✓	✓	✓
use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content			✓	✓				✓		✓	✓	✓
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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.			✓	✓		✓		✓			✓	✓