



Progression Grid: Computing



E-Safety

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Recognise that a range of technology is used in places such as homes and schools	Develop an understanding of how to use technology safely	Use technology safely and respectfully, keeping personal information private	Use technology safely, respectfully and responsibly	Recognise acceptable/unacceptable behaviour and identify ways to report concerns about content and contact	Confidently, competently and responsibly use information and communication technology	Confidently, competently and responsibly use information and communication technology
	Know where to go for help/support when they have concerns about content/contact on internet	Identify where to go for help/support when concerned about content/contact on internet/other online technologies	Recognise acceptable/unacceptable behaviour and identify ways to report concerns about content and contact			

Computer Science

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Begin to develop an understanding of algorithms	Understand what algorithms are	Start to use reasoning to understand how algorithms work	Use logical reasoning to understand how algorithms work	Write and debug programs that accomplish specific goals, including controlling or simulating physical systems	Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems
	Begin to understand that programs work by following instructions	Understand how algorithms are implemented as programs on digital devices	Detect errors in algorithms and programs	Detect and correct errors in algorithms and programs	Solve problems by decomposing them into smaller parts	Solve problems by decomposing them into smaller parts

	Create simple programs and begin to debug them	Understand that programs execute by following precise and unambiguous instructions	Begin to solve problems by decomposing them into smaller parts	Start to use sequence, selection and repetition in programs	into smaller parts Use sequence, selection and repetition in programs	Use sequence, selection and repetition accurately in programs
	Develop reasoning to predict the behaviour of simple programs	Use logical reasoning to predict the behaviour of simple programs	Start to use sequence and selection in programs	Write and debug programs that accomplish specific goals, including controlling or simulating physical systems	Accurately manipulate variables and various forms of input/output	Accurately manipulate a wide range of variables and various forms of input/output
		Create and debug simple programs	Begin to develop understanding of how to write and debug programs that accomplish specific goals, including controlling or simulating physical systems	Begin to solve problems by decomposing them into smaller parts	Use logical reasoning to understand how algorithms work and detect and correct errors in algorithms and programs	Securely use logical reasoning to understand how algorithms work and detect and correct errors in algorithms and programs
			Begin to work with various forms of input/output	Work with variables and various forms of input/output		

Digital Literacy

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Select and use technology for a particular purpose	Use technology to create, store and retrieve digital content	Use technology purposefully to create, store, retrieve, organise and manipulate digital content	Use a variety of software on digital devices	Select and use a variety of software on digital devices	Express own ideas by selecting, using and combining a variety of software on digital devices to design and create programs	Express own ideas by selecting, using and combining a variety of software on a range of digital devices and create programs

Information Technology						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Recognise that a range of technology is used in places such as homes and schools	Begin to recognise common uses of information technology beyond school	Recognise common uses of information technology beyond school	Show emerging understanding of computer networks including the internet and how they provide multiple services such as the World Wide Web	Understand computer networks including the internet and how they provide multiple services such as the World Wide Web	Recognise the opportunities computer networks offer for communication and collaboration	Use the opportunities computer networks offer for communication and collaboration
			Use some search technologies effectively and appreciate how results are selected	Use search technologies effectively and appreciate how results are selected and ranked	Use a wide range of search technologies effectively and appreciate how results are selected and ranked	Appreciate how results are selected and ranked and use this to retrieve accurate content
			Decide which questions to ask when using search engines	Evaluate the reliability of digital content	Be discerning in evaluating the reliability of digital content	Be discerning in evaluating the reliability of digital content
				Begin to ask and answer questions based on the reliability of digital content		