

Computing Progression Grid – National Curriculum.

Aims:	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Understand and apply principles of computer science.	Understand what algorithms are and how they are implemented as programs on digital devices.	Understand that algorithms are used to create programs that execute by following precise and unambiguous instructions.	design, write and debug programs that accomplish specific goals,	design, 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; solve problems by decomposing them into smaller parts	design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
Analyse problems in computational terms.	Create and debug simple programs	Use logical reasoning to predict the behaviour of simple programs	use sequence, selection, and repetition in programs	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	use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
Evaluate and apply informational technology.	recognise common uses of information technology	recognise common uses of information technology beyond school	understand computer networks including the internet; 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,	understand computer networks including the internet; how they can provide multiple services, such as the world wide web 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	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 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	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 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	collecting, analysing, evaluating and presenting data and information
Use of information and communication technology	<p>use technology purposefully to create, store, and retrieve digital content</p> <p>use technology safely and respectfully, keeping personal information private;</p>	<p>use technology purposefully to create, organise, store, manipulate and retrieve digital content</p> <p>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.</p>	<p>use search technologies effectively</p> <p>use technology safely, respectfully and responsibly</p>	<p>use search technologies effectively, appreciate how results are selected and ranked</p> <p>use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour</p>	<p>use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</p> <p>use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>	<p>use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</p> <p>use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>