Computing Progression of Skills

The document below has been designed to show how we will cover all of the relevant Computing knowledge and skills across our school. The school follows the 'Switched On' scheme of work for Computing teaching; however, the context in which these lessons are taught is left to the discretion of teachers, where possible trying to match the content of their unit to their year group's termly topic.

Year Group	Information Technology	Digital Literacy	Computer Science
1	Use technology purposefully to organise, store and retrieve digital content. Use technology purposefully to create and manipulate digital content.	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. Recognise common uses of information technology beyond school.	Understand what algorithms are. Understand how algorithms are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.
2	Use technology purposefully to organise, store and retrieve digital content. Use technology purposefully to create and manipulate digital content.	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. Recognise common uses of information technology beyond school.	Understand what algorithms are. The child can understand how algorithms 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.
3	Select, use and combine a variety of	Use technology safely, respectfully and responsibly.	Design, write and debug programs that accomplish

	software (including internet services) on a range of digital devices. Design and create a range of programs, systems and content that accomplish given goals. Collecting, analysing, evaluating and presenting data and information. Use search technologies effectively. Appreciate how search results are selected and ranked.	Recognise acceptable/unacceptable behaviour. Know a range of ways to report concerns and inappropriate behaviour. Be discerning in evaluating digital content. Understand the opportunities networks offer for communication and collaboration.	specific goals. Controlling or simulating physical systems. Solve problems by decomposing them into smaller parts. Use sequence, selection and repetition in programs; work with variables. Use logical reasoning to explain how some simple algorithms work. Use logical reasoning to detect and correct errors in algorithms and programs. Understand computer networks including the internet. Understand how networks can provide multiple services, such as the world wide web.
4	Select, use and combine a variety of software (including internet services) on a range of digital devices. Design and create a range of programs, systems and content that accomplish given goals. Collecting, analysing, evaluating and presenting data and information. Use search technologies effectively. Appreciate how search results are selected and ranked.	Use technology safely, respectfully and responsibly. Recognise acceptable/unacceptable behaviour. Know a range of ways to report concerns and inappropriate behaviour. Be discerning in evaluating digital content. Understand the opportunities networks offer for communication and collaboration.	Design, write and debug programs that accomplish specific goals. Controlling or simulating physical systems. Solve problems by decomposing them into smaller parts. Use sequence, selection and repetition in programs; work with variables. Work with various forms of input and output. Use logical reasoning to explain how some simple algorithms work. Use logical reasoning to detect and correct errors in algorithms and programs. Understand computer networks including the internet. Understand how networks can provide multiple services, such as the world wide web.
5	Select, use and combine a variety of software (including internet services) on a range of digital devices.	Use technology safely, respectfully and responsibly. Recognise acceptable/unacceptable behaviour. Know a range of ways to report concerns and	Design, write and debug programs that accomplish specific goals Controlling or simulating physical systems.

	Design and create a range of programs, systems and content that accomplish given goals. Collecting, analysing, evaluating and presenting data and information. Use search technologies effectively. Appreciate how search results are selected and ranked.	inappropriate behaviour. Be discerning in evaluating digital content. Understand the opportunities networks offer for communication and collaboration.	Solve problems by decomposing them into smaller parts. Use sequence, selection, and repetition in programs; work with variables. Work with various forms of input and output. Use logical reasoning to explain how some simple algorithms work. Use logical reasoning to detect and correct errors in algorithms and programs. Understand computer networks including the internet. Understand how networks can provide multiple services, such as the world wide web.
6	Select, use and combine a variety of software (including internet services) on a range of digital devices. Design and create a range of programs, systems and content that accomplish given goals. Collecting, analysing, evaluating and presenting data and information. Use search technologies effectively. Appreciate how search results are selected and ranked.	Use technology safely, respectfully and responsibly. Recognise acceptable/unacceptable behaviour. Know a range of ways to report concerns and inappropriate behaviour. Be discerning in evaluating digital content. Understand the opportunities networks offer for communication and collaboration.	Design, write and debug programs that accomplish specific goals. Controlling or simulating physical systems. Solve problems by decomposing them into smaller parts. Use sequence, selection and repetition in programs; work with variables. Work with various forms of input and output. Use logical reasoning to explain how some simple algorithms work. Use logical reasoning to detect and correct errors in algorithms and programs. Understand computer networks including the internet. Understand how networks can provide multiple services, such as the world wide web.