Nailsworth C of E Primary School **Curriculum Design**

Together, inspired by the challenge…

Computing

Areas of study	EYFS	Y1	Y2	Y3	Y4	Y5	Y6
Algorithms	Understand concept of following instructions in order	Write instructions in order.	Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.	Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. Use logical reasoning to detect and correct errors in algorithms and programs.	Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. Use logical reasoning to detect and correct errors in algorithms and programs.	Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. Use logical reasoning to detect and correct errors in algorithms and programs.	Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. Use search technologies effectively. Use logical reasoning to detect and correct errors in algorithms and programs.
Programming		Create and debug simple programs. Use logical reasoning to predict the behaviour of simple programs. Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by	Create and debug simple programs. Use logical reasoning to predict the behaviour of simple programs.	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	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 and analysing.	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.	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

		following precise and unambiguous instructions. Use logical reasoning to predict the behaviour of simple programs.		collecting and analysing. 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 sequence, selection, and repetition in programs; work with variables and various forms of input and output.	Use sequence, selection, and repetition in programs; work with variables and various forms of input and output. 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 sequence, selection, and repetition in programs; work with variables and various forms of input and output. 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.	collecting, analysing. Use sequence, selection, and repetition in programs; work with variables and various forms of input and output. 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.
Handling data			Use technology purposefully to create, organise, store, manipulate				Appreciate how search results are selected and ranked, and be

			and retrieve digital content.				discerning in evaluating digital content.
Communication	Talk about how we use the interactive screen to help us learn.	Talk about devices used at home and in school.				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.	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.
Computers	Foster understanding of our culturally, socially, **technologically** and ecologically diverse world.	Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Recognise common uses of information technology beyond school.	Recognise common uses of information technology beyond school.	Use search technologies effectively.	Use search technologies effectively. 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.	

E-safety			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.	Use technology safely, respectfully and responsibly; recognise acceptable and unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.
Skills	Problem-solving	Developing digital literacy Problem-solving	Developing digital literacy Problem-solving	Programming, Creating digital artefacts Using a search engine. Problem-solving Digital literacy	Programming, Creating digital artefacts Using a search engine. Problem-solving Digital literacy	Programming, Creating digital artefacts Using a search engine. Problem-solving Digital literacy	Programming, Creating digital artefacts Using a search engine. Problem-solving Digital literacy
Cross curricular links	PSHE – Ecologically diverse world (computers)	PSHE – E-safety DT - programming	PSHE – E-safety DT - programming	PSHE - E-safety Maths – Data handling DT – programming/ computers	PSHE - E-safety Maths – Data handling DT – programming/ computers	PSHE - E-safety Maths – Data handling DT – programming/ computers	PSHE - E-safety Maths – Data handling DT – programming/ computers