

Long Term Year Plan Computing Cycle A Even-Odd years (e.g 2022-2023)

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	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	N/A	N/A	N/A	N/A	N/A	N/A
Year 1 and 2	Improving mouse skills 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	Algorithms unplugged 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	Rocket to the moon Use technology purposefully to create, organise, store, manipulate and retrieve digital content	What is a computer? Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions Recognise common uses of information technology beyond school	Algorithms and debugging Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions	Word processing, Use technology purposefully to create, organise, store, manipulate and retrieve 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
Year 3 and 4	 Emailing, 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 	Programming Scratch Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts	Video Trailers 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	Website Design Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	Further Coding, with Scratch Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts 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	Computational Thinking Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
Year 5 and 6	Micro:bit Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts	Mars Rover 1 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,	Mars Rover 2 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,	Bletchley Park 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	History of Computers 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	Inventing a product Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts

Computing

Select, use and combine a variety of	analysing, evaluating and	analysing, evaluating and	collecting, analysing,	collecting, analysing,	Select, use and combine a
software (including internet	presenting data and information	presenting data and information	evaluating and presenting	evaluating and presenting	variety of software (including
services) on a range of digital			data and information	data and information	internet services) on a range
devices to design and create a					of digital devices to design
range of programs, systems and			Use technology safely,	Use technology safely,	and create a range of
content that accomplish given			respectfully and responsibly;	respectfully and responsibly;	programs, systems and
goals, including collecting,			recognise	recognise	content that accomplish
analysing, evaluating and			acceptable/unacceptable	acceptable/unacceptable	given goals, including
presenting data and information			behaviour; identify a range of	behaviour; identify a range of	collecting, analysing,
			ways to report concerns	ways to report concerns	evaluating and presenting
			about content and contact	about content and contact	data and information

Cycle B		Od	SHAWLANDS PRIMARY SCHOOL Long Term Year Plan Computing Cycle B ld-Even years (e.g. 2021-2022)		Computing
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	N/A	N/A	N/A	N/A	N/A	N/A
Year 1 and 2	Bee-bots 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	Digital imagery 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	Introduction to data Use technology purposefully to create, organise, store, manipulate and retrieve digital content Recognise common uses of information technology beyond school	Scratch Jr 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	Stop Motion Use technology purposefully to create, organise, store, manipulate and retrieve digital content Use technology purposefully to create, organise, store, manipulate and retrieve digital content Recognise common uses of information technology beyond school	International Space Station Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions Use technology purposefully to create, organise, store, manipulate and retrieve digital content
Year 3 and 4	Networks and 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, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information	other online technologies Comparison card 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	Journey inside a computer Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts	Collaborative learning 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	Investigating weather 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	HTML Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts 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
Year 5 and 6	Programming music Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts	Stop motion animation Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts	Search engines Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of	Big. data 1 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	Big data 2 Select, use and combine a variety of software (including internet services) on a range of digital devices to design and	Introduction to Python Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts

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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