

Subject: Computing

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
FS		<p>Exploring hardware - interacts with age appropriate computer software</p> <p>- Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes.</p>	<p>Using a computer - Completes a simple program on a computer</p> <p>- interacts with age appropriate computer software</p> <p>- Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes.</p>	<p>All about instructions - interacts with age appropriate computer software</p> <p>- Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes.</p>	<p>Programming Bee-Bots EYFS - interacts with age appropriate computer software</p> <p>- Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes.</p>	<p>Introduction to data EYFS - Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes.</p>
1	<p>Getting started - use technology purposefully to create, organise, store, manipulate and retrieve digital content</p> <p>- recognise common uses of information technology beyond school</p>	<p>Programming: 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</p> <p>- create and debug simple programs</p>	<p>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</p> <p>- create and debug simple programs</p>	<p>Digital Imagery - use logical reasoning to predict the behaviour of simple programs</p> <p>- use technology purposefully to create, organise, store, manipulate and retrieve digital content</p> <p>- recognise common uses of information</p>	<p>Introduction to Data - use technology purposefully to create, organise, store, manipulate and retrieve digital content</p> <p>- recognise common uses of information technology beyond school</p>	<p>Rocket to the moon - 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>Online Safety Lesson 1 - 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 logical reasoning to predict the behaviour of simple programs</p> <p>Online Safety Lesson 2 - 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>Online Safety Lesson 3 - 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>technology beyond school</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>Online Safety Lesson 4 - 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>		
2	<p>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</p>	<p>Word processing - use technology purposefully to create, organise, store, manipulate and retrieve digital content</p>	<p>Programming: Scratch Jr - understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and</p>	<p>International Space Station - understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by</p>	<p>Stop Motion - use technology purposefully to create, organise, store, manipulate and retrieve digital content</p>	<p>Algorithms and Debugging - understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by</p>

	<p>unambiguous instructions</p> <p>- recognise common uses of information technology beyond school</p> <p>Online Safety Lesson 1 - 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 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>Online Safety Lesson 2 - 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>unambiguous instructions</p> <p>- create and debug simple programs</p> <p>- use logical reasoning to predict the behaviour of simple programs</p> <p>- use technology purposefully to create, organise, store, manipulate and retrieve digital content</p> <p>Online Safety Lesson 3 - 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>following precise and unambiguous instructions</p> <p>- use technology purposefully to create, organise, store, manipulate and retrieve digital content</p> <p>Online Safety Lesson 4 - 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>- recognise common uses of information technology beyond school</p>	<p>following precise and unambiguous instructions</p> <p>- create and debug simple programs</p> <p>- use logical reasoning to predict the behaviour of simple programs</p>
3	<p>Networks and the internet - Understand computer networks including the</p>	<p>Emailing - Understand computer networks including the internet; how they can provide multiple</p>	<p>Programming: Scratch - design, write and debug programs that accomplish specific goals, including</p>	<p>Journey inside a computer - design, write and debug programs that accomplish specific</p>	<p>Digital Literacy - use search technologies effectively, appreciate how results are selected and ranked, and be</p>	<p>Top Trumps Databases - select, use and combine a variety of software (including internet services) on a</p>

<p>internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration</p> <p>- use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</p> <p>Online Safety Lesson 1 - use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>	<p>services, such as the world wide web; and the opportunities they offer for communication and collaboration</p> <p>- 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</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>Online Safety Lesson 2 - use technology safely, respectfully and</p>	<p>controlling or simulating physical systems; solve problems by decomposing them into smaller parts</p> <p>- use sequence, selection, and repetition in programs; work with variables and various forms of input and output</p> <p>- use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</p> <p>Online Safety Lesson 3 - use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>	<p>goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts</p> <p>- use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</p> <p>- 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</p> <p>Online Safety Lesson 4 - use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>	<p>discerning in evaluating digital content</p> <p>- 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</p>	<p>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</p>
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		responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.				
4	<p>Collaborative learning</p> <ul style="list-style-type: none"> - 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 and information 	<p>Further coding with Scratch</p> <ul style="list-style-type: none"> - design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts - 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 and to detect and correct errors in algorithms and programs 	<p>Website design</p> <ul style="list-style-type: none"> - 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. <p>Online Safety Lesson 3</p>	<p>HTML</p> <ul style="list-style-type: none"> - design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts - 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 and to detect and correct errors in algorithms and programs 	<p>Investigating Weather</p> <ul style="list-style-type: none"> - 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 technology safely, respectfully and responsibly; recognise 	<p>Computational Thinking</p> <ul style="list-style-type: none"> - design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts - 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 and to detect and correct errors in algorithms and programs <p>Online Safety Lesson 6</p>

	<p>Online Safety Lesson 1</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>Online Safety Lesson 2</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 technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</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>Online Safety Lesson 4</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>acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p> <p>Online Safety Lesson 5</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 technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>
5	<p>Search engines</p> <p>- 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</p> <p>- use search technologies effectively, appreciate how results are selected</p>	<p>Micro:bit</p> <p>- design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts</p> <p>- use sequence, selection, and repetition</p>	<p>Stop Motion</p> <p>Online Safety Lesson 3</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>SonicPi</p> <p>- design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts</p> <p>- use sequence, selection, and repetition</p>	<p>Mars Rover 1</p> <p>- 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</p> <p>- select, use and combine a variety of software (including</p>	<p>Mars Rover 2</p> <p>- 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</p> <p>- select, use and combine a variety of software (including</p>

	<p>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>Online Safety Lesson 1 - use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>	<p>in programs; work with variables and various forms of input and output</p> <p>- use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</p> <p>- 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</p> <p>Online Safety Lesson 2 - use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a</p>		<p>in programs; work with variables and various forms of input and output</p> <p>- use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</p> <p>- 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</p> <p>- 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,</p>	<p>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</p> <p>Online Safety Lesson 5 - use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>	<p>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</p> <p>- use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</p> <p>Online Safety Lesson 6 - use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>
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		range of ways to report concerns about content and contact.		evaluating and presenting data and information Online Safety Lesson 4 - use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.		
6	Bletchley Park 1 - 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, appreciate how results are selected and ranked, and be discerning in evaluating digital content	Bletchley Park 2 - 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, appreciate how results are selected and ranked, and be discerning in evaluating digital content	Intro 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 - use sequence, selection, and repetition in programs; work with variables and various forms of input and output	Big Data 1 - 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	Big Data 2 - 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	Skills Showcase - design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts - use sequence, selection, and repetition in programs; work with variables and various forms of input and output

<p>- 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</p> <p>Online Safety Lesson 1 - use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>	<p>- 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</p> <p>Online Safety Lesson 2 - 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 logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</p> <p>Online Safety Lesson 3 - use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>	<p>that accomplish given goals, including collecting, analysing, evaluating and presenting data and information</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>Online Safety Lesson 4 - use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>	<p>that accomplish given goals, including collecting, analysing, evaluating and presenting data and information</p> <p>Online Safety Lesson 5 - 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 logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</p> <p>- 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</p> <p>- use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</p> <p>- 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</p>
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						<p>goals, including collecting, analysing, evaluating and presenting data and information</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>Online Safety Lesson 6 - use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>
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Digital Literacy and Online Safety

Computational Thinking

Computers and Hardware