

Subject: Computing

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
FS		<p><b>Exploring hardware</b>                      - 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><b>Using a computer</b>                      - 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><b>All about instructions</b>                      - 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><b>Programming Bee-Bots EYFS</b>                      - 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><b>Introduction to data EYFS</b>                      - 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><b>Getting started</b>                      - use technology purposefully to create, organise, store, manipulate and retrieve digital content</p> <p>- recognise common uses of information technology beyond school</p>	<p><b>Programming: Bee Bots</b>                      - 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><b>Algorithms unplugged</b>                      - 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><b>Digital Imagery</b>                      - 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><b>Introduction to Data</b>                      - use technology purposefully to create, organise, store, manipulate and retrieve digital content</p> <p>- recognise common uses of information technology beyond school</p>	<p><b>Rocket to the moon</b>                      - 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><b>Online Safety Lesson 1</b> - 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><b>Online Safety Lesson 2</b> - 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><b>Online Safety Lesson 3</b> - 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><b>Online Safety Lesson 4</b> - 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><b>What is a computer</b> - understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and</p>	<p><b>Word processing</b> - use technology purposefully to create, organise, store, manipulate and retrieve digital content</p>	<p><b>Programming: Scratch Jr</b> - understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and</p>	<p><b>International Space Station</b> - understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by</p>	<p><b>Stop Motion</b> - use technology purposefully to create, organise, store, manipulate and retrieve digital content</p>	<p><b>Algorithms and Debugging</b> - 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><b>Online Safety Lesson 1</b> - 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><b>Online Safety Lesson 2</b> - 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><b>Online Safety Lesson 3</b> - 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><b>Online Safety Lesson 4</b> - 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><b>Networks and the internet</b> - Understand computer networks including the</p>	<p><b>Emailing</b> - Understand computer networks including the internet; how they can provide multiple</p>	<p><b>Programming: Scratch</b> - design, write and debug programs that accomplish specific goals, including</p>	<p><b>Journey inside a computer</b> - design, write and debug programs that accomplish specific</p>	<p><b>Digital Literacy</b> - use search technologies effectively, appreciate how results are selected and ranked, and be</p>	<p><b>Top Trumps Databases</b> - 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><b>Online Safety Lesson 1</b> - 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><b>Online Safety Lesson 2</b> - 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><b>Online Safety Lesson 3</b> - 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><b>Online Safety Lesson 4</b> - 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><b>Collaborative learning</b></p> <ul style="list-style-type: none"> <li>- 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</li> <li>- 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</li> </ul>	<p><b>Further coding with Scratch</b></p> <ul style="list-style-type: none"> <li>- design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts</li> <li>- use sequence, selection, and repetition in programs; work with variables and various forms of input and output</li> <li>- use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</li> </ul>	<p><b>Website design</b></p> <ul style="list-style-type: none"> <li>- 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</li> <li>- use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul> <p><b>Online Safety Lesson 3</b></p>	<p><b>HTML</b></p> <ul style="list-style-type: none"> <li>- design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts</li> <li>- use sequence, selection, and repetition in programs; work with variables and various forms of input and output</li> <li>- use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</li> </ul>	<p><b>Investigating Weather</b></p> <ul style="list-style-type: none"> <li>- use sequence, selection, and repetition in programs; work with variables and various forms of input and output</li> <li>- 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</li> <li>- use technology safely, respectfully and responsibly; recognise</li> </ul>	<p><b>Computational Thinking</b></p> <ul style="list-style-type: none"> <li>- design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts</li> <li>- use sequence, selection, and repetition in programs; work with variables and various forms of input and output</li> <li>- use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</li> </ul> <p><b>Online Safety Lesson 6</b></p>

	<p><b>Online Safety Lesson 1</b></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><b>Online Safety Lesson 2</b></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><b>Online Safety Lesson 4</b></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><b>Online Safety Lesson 5</b></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><b>Search engines</b></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><b>Micro:bit</b></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><b>Stop Motion</b></p> <p><b>Online Safety Lesson 3</b></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><b>SonicPi</b></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><b>Mars Rover 1</b></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><b>Mars Rover 2</b></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><b>Online Safety Lesson 1</b> - 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><b>Online Safety Lesson 2</b> - 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><b>Online Safety Lesson 5</b> - 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><b>Online Safety Lesson 6</b> - 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		
				<b>Online Safety Lesson 4</b> - use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.		
6	<b>Bletchley Park 1</b> - 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	<b>Bletchley Park 2</b> - 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	<b>Intro to Python</b> - 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	<b>Big Data 1</b> - 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	<b>Big Data 2</b> - 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	<b>Skills Showcase</b> - 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><b>Online Safety Lesson 1</b> - 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><b>Online Safety Lesson 2</b> - 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><b>Online Safety Lesson 3</b> - 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><b>Online Safety Lesson 4</b> - 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><b>Online Safety Lesson 5</b> - 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><b>Online Safety Lesson 6</b>  - 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