

| Year 3 | Topics and National Curriculum links |
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| Autumn 1 | Communication/Collaboration - Communicating safely on the internet NC: Use technology safely, respectfully and responsibly; know a range of ways to report concerns and unacceptable behaviour |
| Autumn 2 | Computer Networks – exploring computer networks NC: Appreciate how [search] results are selected and ranked Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web |
| Spring 1 | Programming – Sequence and animation NC Use technology safely, respectfully and responsibly; acceptable and unacceptable behaviour and know a range of ways to report concerns and unacceptable behaviour Use sequence, selection, and repetition in programs; work with variables and various forms of input and output know a range of ways to report concerns and unacceptable behaviour |
| Spring 2 | Creativity – Create a video performance NC: Use technology safely, respectfully and responsibly; 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 Be discerning in evaluating digital content |
| Summer 1 | Programming – Conditional events NC: Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs |
| Summer 2 | NC - Programming - Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. Productivity - Collecting and Analysing data NC: 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 |



| Year 4 | Topics and National Curriculum links |
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| Autumn 1 | Computer Networks - editing and creating html NC: Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web Use and combine a variety of software (including internet services) to accomplish given goals, including presenting information Understand the opportunities [networks] offer for communication and collaboration |
| Autumn 2 | Communication/Collaboration – Produce a wiki NC: Use search technologies effectively; Use technology safely, respectfully and responsibly; know a range of ways to report concerns and unacceptable behaviour |
| Spring 1 | Programming – Introduction to variables NC: Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. |
| Spring 2 | Programming – Repetition & Loops NC: Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs; Use sequence, selection, and repetition in programs; work with variables and various forms of input and output |
| Summer 1 | Creativity: Creating digital music/Present the weather NC: 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 information |
| Summer 2 | Productivity – Robotics We Do NC: 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 |



| Year 5 | Topics and National Curriculum links |
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| Autumn 1 | Programming: Speed, direction and variables NC: Use technology safely, respectfully and responsibly; recognise acceptable/ unacceptable behaviour; identify a range of ways to report concerns about content and contact 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 |
| Autumn 2 | Programming: Random numbers and simulations NC: 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 logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs |
| Spring 1 | Creativity – create a movie NC: Use search technologies effectively 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 |
| Spring 2 | Computer Networks - Create a webpage about cyber safety NC: Understand the opportunities [networks] offer for communication and collaboration Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact 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 |
| Summer 1 | Communication/Collaboration- Sharing experiences and opinions (Blogging) NC: Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web and Understand they offer for communication and collaboration Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact |



| | 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 |
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| Summer 2 | Productivity - Creating a virtual space NC: Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact 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 Be discerning in evaluating digital content. Appreciate how [search] results are selected and ranked. |



| Year 6 | Topics and National Curriculum links |
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| Autumn 1 | Programming – More complex variables NC: Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact 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 |
| Autumn 2 | Programming – Object properties NC: 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 |
| Spring 1 | Creativity – Create an animated film NC: Use technology effectively; Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact 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 |
| Spring 2 | Computer networks – planning the creation of an app NC: Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact 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 Work with various forms of input and output. |
| Summer 1 | Communication/Collaboration - Designing the interface for an app NC: 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 |



Summer 2

Productivity – Create an app

NC: 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 logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs Understand the opportunities [networks] offer for communication and collaboration