

| Year Group | Computing |
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| Year 1 | <p>BEEBOTS:</p> <ul style="list-style-type: none"> • Create and debug simple programs • Use logical reasoning to predict the behaviour of simple programs <p>Logging on, loading, saving and editing using a wide variety of applications:</p> <ul style="list-style-type: none"> • Use technology purposefully to create, organise, store, manipulate and retrieve digital content <p>E-safety</p> <ul style="list-style-type: none"> • Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns. |
| Year 2 | <p>BeeBots and Probotix:</p> <ul style="list-style-type: none"> • 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 <p>Logging on, loading, saving and editing using word processors, desktop publishers, presentation software, music editing software and animation software.</p> <ul style="list-style-type: none"> • Use technology purposefully to create, organise, store, manipulate and retrieve digital content • Recognise common uses of information technology beyond school <p>E-safety</p> <ul style="list-style-type: none"> • 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 |

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| Year 3 | <p>Use Probotix cars and simulation to:</p> <ul style="list-style-type: none"> • design, write and debug programs, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts • use sequence, selection, and repetition in programs • Use logical reasoning to explain how some simple algorithms work and to detect errors in algorithms. <p>Use search technologies effectively</p> <p>Select, use software (including internet services to design and create a range of programs, systems and content that accomplish given goals, including collecting, and presenting information.</p> <p>E-safety</p> <ul style="list-style-type: none"> • Use technology safely, respectfully and responsibly; recognise • Acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. |
| Year 4 | <p>Use Probotix cars and the Scratch programming environment to:</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>Understand computer networks including the internet;</p> |

Year 5

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

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

E-safety

- Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

Use the Scratch environment to 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
- Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms

Understand computer networks; how they can provide multiple services and the opportunities they offer for communication and collaboration

Use search technologies effectively and be discerning in evaluating digital content

Select, use and combine software (including internet services) on a range of digital devices to design and create a range content that accomplish given goals, including collecting and presenting data and information

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| | <p>E-safety</p> <ul style="list-style-type: none"> • Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. |
| <p>Year 6</p> | <p>Use the Scratch, Kodu and Probotix programming environments to:</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>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 goals, including collecting, analysing, evaluating and presenting data and information</p> <p>E-safety</p> <ul style="list-style-type: none"> • Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. |