



National Curriculum 2014 Planning Document

Statutory Requirements

Computing

<p>Year 1</p>	<p>Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>▪ understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions</li> <li>▪ create and debug simple programs</li> <li>▪ use logical reasoning to predict the behaviour of simple programs</li> <li>▪ use technology purposefully to create, organise, store, manipulate and retrieve digital content</li> <li>▪ recognise common uses of information technology beyond school</li> <li>▪ 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.</li> </ul>
<p>Year 2</p>	<p>Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>▪ understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions</li> <li>▪ create and debug simple programs</li> <li>▪ use logical reasoning to predict the behaviour of simple programs</li> <li>▪ use technology purposefully to create, organise, store, manipulate and retrieve digital content</li> <li>▪ recognise common uses of information technology beyond school</li> </ul>



	<ul style="list-style-type: none"> <li>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.</li> </ul>
Year 3	<p>Pupils should be taught to:</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> <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>use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</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 acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul>
Year 4	<p>Pupils should be taught to:</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> <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>use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</li> </ul>



	<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>
Year 5	<p>Pupils should be taught to:</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> <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>▪ use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</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 acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul>
Year 6	<p>Pupils should be taught to:</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> <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</li> </ul>



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

