

## Computing Progression: Expected Standards

Year Group	Computer Sciences	Information Technology	Digital Literacy
<b>Year 1</b>	<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> </ul>	<ul style="list-style-type: none"> <li>*Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</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> <li>*Recognise common uses of information technology beyond school.</li> </ul>
<b>Year 2</b>	<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> </ul>	<ul style="list-style-type: none"> <li>Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> </ul>	<ul style="list-style-type: none"> <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>
<b>Year 3</b>	<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. *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> </ul>	<ul style="list-style-type: none"> <li>*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.</li> </ul>	<ul style="list-style-type: none"> <li>*Use technology safely, respectfully and responsibly; recognise acceptable/ unacceptable behaviour; identify a range of ways to report concern about content and contact.</li> </ul>
<b>Year 4</b>	<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> </ul>	<ul style="list-style-type: none"> <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> </ul>	<ul style="list-style-type: none"> <li>*Use technology safely, respectfully and responsibly; recognise acceptable/ unacceptable behaviour; identify a range of ways to report concern about content and contact.</li> </ul>
<b>Year 5</b>	<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> </ul>	<ul style="list-style-type: none"> <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> </ul>	<ul style="list-style-type: none"> <li>*Use technology safely, respectfully and responsibly; recognise acceptable/ unacceptable behaviour; identify a range of ways to report concern about content and contact.</li> </ul>
<b>Year 6</b>	<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> </ul>	<ul style="list-style-type: none"> <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> </ul>	<ul style="list-style-type: none"> <li>Use technology safely, respectfully and responsibly; recognise acceptable/ unacceptable behaviour; identify a range of ways to report concern about content and contact.</li> </ul>