

Computing Progression of Skills

Skill focus	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Computer Science <ul style="list-style-type: none"> • Problem solving • Programming • Logical thinking 	<p>Problem solving:</p> <ul style="list-style-type: none"> - Make choices about the buttons/icons to press, touch or click on when using simple software/hardware - Give commands/instructions e.g. forward, backwards, go, stop, when using simple software/hardware <p>Programming:</p> <p>Completes a simple program on a computer.</p>	<p>Problem solving:</p> <ul style="list-style-type: none"> - Understand what algorithms are - Understand how algorithms are implemented as programs on digital devices <p>Programming:</p> <ul style="list-style-type: none"> - Create and debug simple programs. <p>Logical Thinking:</p> <ul style="list-style-type: none"> - Use logical reasoning to predict the behaviour of simple programs 	<p>Problem Solving:</p> <ul style="list-style-type: none"> - Understand what algorithms are - Understand how algorithms are implemented as programs on digital devices <p>Programming:</p> <ul style="list-style-type: none"> - Create and debug simple programs <p>Logical Thinking:</p> <ul style="list-style-type: none"> - Use logical reasoning to predict the behaviour of simple programs 	<p>Problem Solving:</p> <ul style="list-style-type: none"> - Design, write and debug programs that accomplish specific goals - Controlling or simulating physical systems - Solve problems by decomposing them into smaller parts <p>Programming:</p> <ul style="list-style-type: none"> - Use sequence, selection and repetition in programs; work with variables - Work with various forms of input and output <p>Logical Thinking:</p> <ul style="list-style-type: none"> - Use logical reasoning to explain how some simple algorithms work - Use logical reasoning to detect and correct errors in algorithms and programs - Understand computer networks including the internet - Understand how networks can provide multiple services, such as the world wide web 	<p>Problem Solving:</p> <ul style="list-style-type: none"> - Design, write and debug programs that accomplish specific goals - Controlling or simulating physical systems - Solve problems by decomposing them into smaller parts <p>Programming:</p> <ul style="list-style-type: none"> - Use sequence, selection and repetition in programs; work with variables - Work with various forms of input and output <p>Logical Thinking:</p> <ul style="list-style-type: none"> - Use logical reasoning to explain how some simple algorithms work - Use logical reasoning to detect and correct errors in algorithms and programs - Understand computer networks including the internet - Understand how networks can provide multiple services, such as the world wide web 	<p>Problem Solving:</p> <ul style="list-style-type: none"> - Design, write and debug programs that accomplish specific goals - Controlling or simulating physical systems - Solve problems by decomposing them into smaller parts <p>Programming:</p> <ul style="list-style-type: none"> - Use sequence, selection, and repetition in programs; work with variables - Work with various forms of input and output <p>Logical Thinking:</p> <ul style="list-style-type: none"> - Use logical reasoning to explain how some simple algorithms work - Use logical reasoning to detect and correct errors in algorithms and programs - Understand computer networks including the internet - Understand how networks can provide multiple services, such as the world wide web 	<p>Problem Solving:</p> <ul style="list-style-type: none"> - Design, write and debug programs that accomplish specific goals - Controlling or simulating physical systems - Solve problems by decomposing them into smaller parts <p>Programming:</p> <ul style="list-style-type: none"> - Use sequence, selection, and repetition in programs; work with variables - Work with various forms of input and output <p>Logical Thinking:</p> <ul style="list-style-type: none"> - Use logical reasoning to explain how some simple algorithms work - Use logical reasoning to detect and correct errors in algorithms and programs - Understand computer networks including the internet - Understand how networks can provide multiple services, such as the world wide web

<p>Digital Literacy</p> <ul style="list-style-type: none"> • E-safety • Using IT beyond school 	<p>E-safety:</p> <ul style="list-style-type: none"> - Use technology safely and respectfully - Identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies. 	<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. 	<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 	<p>E-Safety:</p> <ul style="list-style-type: none"> - Use technology safely, respectfully and responsibly - Recognise acceptable/unacceptable behaviour - Know a range of ways to report concerns and inappropriate behaviour - Be discerning in evaluating digital content - Understand the opportunities networks offer for communication and collaboration 	<p>E- Safety:</p> <ul style="list-style-type: none"> - Use technology safely, respectfully and responsibly - Recognise acceptable/unacceptable behaviour - Know a range of ways to report concerns and inappropriate behaviour - Be discerning in evaluating digital content - Understand the opportunities networks offer for communication and collaboration. 	<p>E-Safety:</p> <ul style="list-style-type: none"> - Use technology safely, respectfully and responsibly - Recognise acceptable/unacceptable behaviour - Know a range of ways to report concerns and inappropriate behaviour - Be discerning in evaluating digital content - Understand the opportunities networks offer for communication and collaboration 	<p>E-Safety:</p> <ul style="list-style-type: none"> - Use technology safely, respectfully and responsibly - Recognise acceptable/unacceptable behaviour - Know a range of ways to report concerns and inappropriate behaviour - Be discerning in evaluating digital content - Understand the opportunities networks offer for communication and collaboration
<p>Information Technology</p> <ul style="list-style-type: none"> • Creating content • Searching 	<p>Using IT beyond school:</p> <ul style="list-style-type: none"> -Recognise technology that is used at home and in school. - Understand what a computer is and the different uses of computers e.g. learning, communicating, finding information, playing games etc. Reception -Experience a range of technology and learn how to use it in a safe way. 	<p>Using IT beyond school:</p> <ul style="list-style-type: none"> - Recognise common uses of information technology beyond school 	<p>Using IT Beyond School</p> <ul style="list-style-type: none"> - Recognise common uses of information technology beyond school 	<p>Creating Content:</p> <ul style="list-style-type: none"> - Select, use and combine a variety of software (including internet services) on a range of digital devices - Design and create a range of programs, systems and content that accomplish given goals 	<p>Creating Content:</p> <ul style="list-style-type: none"> - Select, use and combine a variety of software (including internet services) on a range of digital devices - Design and create a range of programs, systems and content that accomplish given goals 	<p>Creating Content:</p> <ul style="list-style-type: none"> - Select, use and combine a variety of software (including internet services) on a range of digital devices - Design and create a range of programs, systems and content that accomplish given goals 	<p>Creating Content:</p> <ul style="list-style-type: none"> - Select, use and combine a variety of software (including internet services) on a range of digital devices - Design and create a range of programs, systems and content that accomplish given goals
	<p>Creating content:</p> <ul style="list-style-type: none"> -Manages a device by correctly closing websites or apps and safely turning on and off. -Input commands using the space bar, backspace, enter, letters and numbers on a keyboard on any 	<p>Creating content:</p> <ul style="list-style-type: none"> - Use technology purposefully to organise, store and retrieve digital content 	<p>Creating Content:</p> <ul style="list-style-type: none"> - Use technology purposefully to organise, store and retrieve digital content - Use technology purposefully to create and manipulate digital content 				

	<p>device (including on a tablet).</p> <ul style="list-style-type: none"> -Input commands using a mouse to control a cursor and use the left click to select options OR use finger control to interact with a tablet (double tap, swipe) -Experiences simple apps and software and use these to present ideas. <p>Searching:</p> <ul style="list-style-type: none"> - Knows that information can be retrieved from computers. 			<ul style="list-style-type: none"> - Collecting, analysing, evaluating and presenting data and information <p>Searching:</p> <ul style="list-style-type: none"> - Use search technologies effectively - Appreciate how search results are selected and ranked 	<ul style="list-style-type: none"> - Collecting, analysing, evaluating and presenting data and information <p>Searching:</p> <ul style="list-style-type: none"> - Use search technologies effectively - Appreciate how search results are selected and ranked 	<ul style="list-style-type: none"> - Collecting, analysing, evaluating and presenting data and information <p>Searching:</p> <ul style="list-style-type: none"> - Use search technologies effectively - Appreciate how search results are selected and ranked 	<ul style="list-style-type: none"> - Collecting, analysing, evaluating and presenting data and information <p>Searching:</p> <ul style="list-style-type: none"> - Use search technologies effectively - Appreciate how search results are selected and ranked
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