

Computing progression

Skills	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	I can	I can ...	I can...	I can ...	I can ...	I can ...	I can ...
Digital Literacy	<p>Reception: Personal Social Development Show resilience and perseverance in the face of a challenge</p> <p>Physical Development Develop their small motor skills so that they can use a range of tools competently, safely and confidently.</p> <p>Know and talk about the different factors that support their overall health and wellbeing: -sensible amounts of 'screen time'.</p> <p>Expressive Arts and Design Explore, use and refine a variety of artistic effects to express their ideas and feelings.</p>	<p>Identify and discuss technology that we can see in, around and outside the school building. Why is it there? How does it work?</p> <p>Identify and discuss technology at home.</p> <p>Use technology purposefully to sort, collate, store and retrieve digital content.</p>	<p>Make links between technology around them, coding and multi-media work done in school e.g. animations.</p> <p>Effectively search and retrieve content using a search engine.</p>	<p>Understand computer networks</p> <p>Understand when to use technology and when it's not useful to do so</p> <p>List ways that the internet can provide different methods of communication. Use some of the methods e.g. email to share information.</p> <p>Search effectively to retrieve digital content</p>	<p>Understand the function, features, layout of a search engine.</p> <p>Appraise digital content at a basic level for credibility.</p> <p>Reuse content on web pages – e.g. copy and paste an image from a website understanding copyright restrictions</p>	<p>To understand computer networks and how they produce multiple services</p> <p>To search with greater complexity using a search engine.</p> <p>To evaluate digital content and be able to identify bias and to explain in some detail how credible a webpage/ information is.</p>	<p>To provide examples of the difference between the World Wide Web and the Internet.</p> <p>To readily apply filters when searching for digital content.</p> <p>To explain in detail how credible a webpage is and the information it contains.</p> <p>Compare a range of digital content sources and rate them in terms of quality and accuracy.</p>
	Multimedia		<p>Edit and store simple content and manipulate content to design.</p> <p>Create a story animation using: characters and backgrounds and text</p>	<p>Use a range of media in digital content including photos, text and sound.</p>	<p>Consider what software is most appropriate to a given task.</p> <p>Create a story animation/ interactive resource for a younger child using characters and backgrounds and text – showing understanding of audience</p>	<p>Share digital content within community</p>	<p>To collaboratively create content and use several different ways of sharing e.g., blogs</p>
Data Handling	<p>Early Learning Goals Personal Social Development Be confident to try new activities and show independence, resilience and perseverance in the face of challenge.</p>	<p>Sort and group a database.</p>	<p>Organise data by using a database. Use a simple database to search and answer a question.</p>	<p>Collect/ analyse, evaluate and present data</p>	<p>Collect/ analyse/ evaluate presentations of data and information.</p>	<p>To collect/ analyse/ evaluate/ present data and information. Where appropriate create charts / graphs to illustrate patterns of information</p>	<p>To create a simple spreadsheet and identify improvements and make refinements.</p>
Programming	<p>Managing Self Explain the reasons for rules, know right from wrong and try to behave accordingly.</p> <p>Expressive Arts and Design Creating with Materials Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.</p>	<p>Understand an algorithm is a set of instructions and an algorithm written for a computer is a program.</p> <p>Give/ follow single/series of spoken instructions to make things happen (non digital).</p> <p>Write/ follow their own simple algorithm.</p> <p>Work out what is wrong with a simple algorithm when the steps are out of order.</p> <p>Make a good attempt to see the bigger picture of a program e.g.</p>	<p>Explain an algorithm is a set of instructions to complete a task (REPEAT)</p> <p>Give/ follow single/series of spoken instructions to make things happen (non digital) - REPEAT</p> <p>Understand that algorithms need to be precise to be converted into code.</p> <p>Create a simple program and identify/ correct some errors.</p> <p>Begin to identify the cause/ effect in a program.</p>	<p>Give/ follow single/series of spoken instructions to make things happen (non digital) - REPEAT</p> <p>Design and code a program following a simple sequence.</p> <p>Identify an error in their programme and fix it.</p> <p>Build up their knowledge of the programming language e.g. timers</p> <p>Observe, evaluate, modify and improve using logical achievable steps.</p>	<p>Design and write a program for a specific goal</p> <p>Make attempts to debug own program by decomposing problems into smaller parts.</p> <p>Build up their knowledge of the programming language (timers, repetition, variables)</p> <p>Use logical reasoning to explain how their design works and to detect/ correct errors</p>	<p>Give/ follow commands using Lego to create a moving model – test/ debug – REPEAT</p> <p>Design, write and debug programs to accomplish specific goals, including controlling or simulating physical systems.</p> <p>Build up their knowledge of the programming language (sequence, selection, repetition, variables)</p> <p>Use tabs to organise code and the naming of variables</p>	<p>Turn a more complex program into an algorithm by using decomposition</p> <p>Test and debug their program with logical steps and a systematic approach</p> <p>Coding displays improving understanding of variables</p> <p>Interpret a program in parts and put together separate parts to explain the program as a whole. .</p>

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		predict where something will end up.					
E-Safety		<p>Begin to understand the School's internet rules – Rights and Responsibilities/ Acceptable Use.</p> <p>Recognise the kind of information that is private (usernames, password)</p> <p>To use an effective username.</p> <p>Understand what to do if you see something on the Internet which makes you feel uncomfortable or worried.</p> <p>Identify some risks presented by new technologies inside and outside the school (online games)</p>	<p>Begin to understand the School's internet rules – Rights and Responsibilities/ Acceptable Use – REPEAT</p> <p>Recognise the kind of information that is private. Talk about to share with others and what they should not.</p> <p>Learn to create effective usernames</p> <p>Explain what to do if you see something on the Internet which makes you feel uncomfortable or worried both in/ out of school.</p> <p>Identify some risks presented by new technologies inside and outside the school (online games, text messages, internet, email)</p>	<p>To know the School's internet rules – Rights and Resp/ Acceptable Use policy.</p> <p>To understand that there are various ways of reporting concerns</p> <p>To create effective password for school use and show awareness of implications of failure to do do.</p> <p>To understand you should only befriend people you know in real life.</p>	<p>To know the School's internet rules – Rights and Resp/ Acceptable Use policy - REPEAT</p> <p>To know a range of ways of how to deal with unpleasant communications via mobile, text, chat rooms</p> <p>To create an effective password for home/ school use.</p> <p>To know ways to check if someone is "real" and understand you should only befriend people you know in real life.</p> <p>To help others to understand the importance of online safety.</p>	<p>To talk about the risks of not following the rules/charter.</p> <p>To demonstrate safe practice when selecting images/content for uploading to a personal profile or online space or downloading.</p> <p>To explain the purpose of passwords and what makes them strong.</p> <p>To explain a positive digital footprint</p> <p>To explain what cyberbullying is.</p> <p>Children relate appropriate online behaviour to their right to personal privacy and mental wellbeing of themselves/ others.</p>	<p>To talk about the risks of not following the rules/charter.</p> <p>To demonstrate safe practice when selecting images/content for uploading to a personal profile or online space or downloading - REPEAT</p> <p>To understand the impact of sharing information on others.</p> <p>To create a strong password and different passwords for different applications.</p> <p>To compare the risks between different social networking sites and how to use safely.</p> <p>To know how to deal with cyberbullying and recognise the value in preserving their privacy online for their own and other people's safety.</p>
Computer skills	To recognise and use the buttons on technology equipment including an age-appropriate mouse	<p>Log on to the computer and open a document.</p> <p>Explain how to log on to the computer and open up a document.</p> <p>Take ownership of work and save work/ documents.</p> <p>Use a mouse.</p> <p>Log off.</p>	<p>Log on to the computer and open a document - REPEAT</p> <p>Explain how to log on to the computer and open up a document.</p> <p>Type a simple sentence/ add a picture.</p> <p>Save a document and log off.</p> <p>Demonstrate mouse control.</p>	<p>Log on to the computer independently and open a document or powerpoint.</p> <p>Create a text box.</p> <p>Use the short cuts to change text (e.g. bold, underlined, italics).</p> <p>Save work in a file.</p> <p>Demonstrate mouse control.</p>	<p>Log on to the computer independently and open a document or powerpoint.</p> <p>Create a text box.</p> <p>Use the short cuts to change text (e.g. bold, underlined, italics).</p> <p>Add simple animation to powerpoint</p> <p>Save and refind work independently.</p>	<p>Be able to confidently use word/ powerpoint and open a publisher document.</p> <p>Create a spread sheet.</p> <p>Add animations and sound to presentations.</p> <p>Resize pictures/ text as needed.</p> <p>Create folders to save work.</p> <p>Confident mouse control.</p>	<p>Be able to confidently use word/ powerpoint and open a publisher document.</p> <p>Create a spread sheet and use formulas.</p> <p>Add appropriate effects to presentations/ documents.</p> <p>Create folders to save work and publish work as appropriate.</p> <p>Confident mouse control.</p> <p>Know the best method of ICT to use to present work.</p>