



Four Oaks Primary School Computing Progression Map



	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Mandatory skills		<p>To access, understand and interact with a range of technology within the reception environment safely.</p> <p>To use the internet with adult supervision to find and retrieve information.</p>	<p>Do the basics with technology.</p> <p>Take a good quality photograph and video on an iPad/digital camera.</p>	<p>Save, share, and retrieve my digital work.</p> <p>Use technology to organise and present my ideas.</p>	<p>Troubleshoot when something doesn't appear to be working with my device.</p> <p>Discuss different types of digital content and file types.</p>	<p>Label the different types of input connections on devices.</p> <p>Explain common file types.</p>	<p>Make a QR codes that links to my own work.</p> <p>Film and produce a short video.</p>	<p>Collaborate to create digital content.</p> <p>Create a consistent design for my presentation, and present to others.</p>
Computer Science	<p>Shows an interest in technological toys with knobs or pulleys, real objects such as cameras, and touchscreen devices such as mobile phones and tablets.</p> <p>Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements, or new images.</p>	<p>Completes a simple program on electronic devices e.g. Numbots.</p> <p>Develops digital literacy skills by being able to access, understand and interact with a range of technologies.</p> <p>Can use a Bee-Bot</p>	<p>Follow a simple algorithm and create a simple sequence algorithm using symbols that solve a problem.</p> <p>Create algorithms that can be turned into a program using a robot or digital device.</p> <p>Independently debug simple sequence errors in a program.</p> <p>Use logical reasoning to predict the outcome of simple programs.</p>	<p>Plan out an algorithm with a sequence of commands to carry out specific tasks.</p> <p>Identify 'bugs' in computer programs and use the term debug in context.</p> <p>Create a simple repeat loop.</p> <p>Create a simple game program.</p> <p>Predict the outcome of a sequence of blocks in Scratch.</p>	<p>Plan, create and debug programs.</p> <p>Use decomposition to help me solve computing problems.</p> <p>Use sequence, selection, repetition and variables in programs.</p> <p>Work with various forms of input and output.</p> <p>Use logical reasoning to predict and correct errors in algorithms and programs.</p> <p>Explain how the internet works.</p> <p>Explain how a search engine works.</p>	<p>Design an algorithm to simulate a real-life situation.</p> <p>Solve an open-ended problem by breaking it up into smaller parts.</p> <p>Design and write a program for a given purpose including specific programming features.</p> <p>Test existing programs to see how they could be improved.</p> <p>Understand the different methods of communication using the internet.</p>	<p>Decompose a problem, design an algorithm, and use this to write a program.</p> <p>Design and write a program linked to physical systems and sensors.</p> <p>Use variables, conditional statements, procedures & repeat commands to improve programs.</p> <p>Use logical reasoning to detect & debug a program.</p> <p>Explore networks and internet traffic.</p> <p>Translate binary numbers to decimal.</p> <p>Create a basic web page using HTML.</p>	<p>Design, plan & create a complex programs</p> <p>Test, debug and modify a program to improve it.</p> <p>Write a program using a text based programming language.</p> <p>Use logical reasoning to detect and correct errors in algorithms and programs.</p> <p>Understand how computer networks work, including the internet.</p> <p>Talk about the way search results are selected and ranked.</p>

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Information technology</p>	<p>Knows how to operate simple equipment with support</p> <p>Knows that information can be retrieved from digital devices and the internet</p>	<p>Begin to list different IT in their home.</p> <p>Can create content such as a video recording, stories, and/or draw a picture on screen</p>	<p>Use technology to create and present my ideas.</p> <p>Organise and store my digital work.</p> <p>Collect and sort data.</p>	<p>Design and formatting to enhance my digital work.</p> <p>Create with technology. E.g., Video, animation, 3D.</p> <p>Collect and record data purposefully.</p>	<p>Improve the quality and presentation of my work.</p> <p>Create with technology. E.g., Video, animation, 3D</p> <p>Collect, analyse, evaluate, and present data and information.</p> <p>Use advanced search tools</p>	<p>Improve the quality and presentation of my work using editing and formatting techniques.</p> <p>Create with technology. E.g., Video, animation, 3D</p> <p>Use a search engine and I am aware that not everything I read online is correct. (Online Bullying)</p>	<p>Record and produce a podcast / audio clips.</p> <p>Use unfamiliar technology to create content.</p> <p>Improve the quality and presentation of my work.</p> <p>Use a spreadsheet to collect and record data.</p> <p>Use a search engine and I am aware that not everything I read online is correct.</p>	<p>Create and combine a range of media in order to produce digital content.</p> <p>Improve the quality and presentation of my work using editing and formatting techniques.</p> <p>Create a digital storyboard to plan a project or investigation.</p> <p>Use a search engine and I am aware that not everything I read online is correct and that other people may be attempting to influence my opinions</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Digital Literacy</p>	<p>Know how to handle equipment safely.</p> <p>Begin to know that they shouldn't use devices without supervision.</p>	<p>Begin to give reasons why we need to stay safe online</p> <p>Can use the internet with adult supervision to find and retrieve information of interest to them</p> <p>Children learn about e-safety using books e.g., Digiduck's Big Decision.</p>	<p>Recognise the ways we use technology in our classroom, my home and community.</p> <p>Use a search engine.</p> <p>Understand something online may upset and know where to find help if anything does,</p> <p>Communicate politely via the internet.</p> <p>Understand that once something it posted you lose control if it.</p> <p>Describe how to behave online in ways that do not upset others and can give examples.</p> <p>Know the rules of using technology at home or in school.</p> <p>Explain what personal information is and give examples of it.</p>	<p>Give examples of how technology is used to communicate beyond school.</p> <p>Understand that somethings online may upset me and that I cannot trust everyone online. (Self-Image)</p> <p>Use online services to communicate safely. (Online Relationships)</p> <p>Understand that once something it posted you lose control if it and know how to get help if I need to. (Online Reputation)</p> <p>Give examples of online bullying behaviour, I understand the impact it may have, and I know where to go for support. (Online Bullying)</p>	<p>Know how to use the internet.</p> <p>Analyse information and make accurate searches.</p> <p>Understand the need for copyright and the consequences of ignoring it.</p> <p>Be aware of what I should be sharing online and where to go for help if I need it.</p> <p>Understand that I cannot trust everyone I talk to online, that I should be a good digital citizen and where to go for help if something upsets me online.</p> <p>Explain what bullying is and know where to go for help.</p>	<p>Collaborate online to create digital content.</p> <p>Evaluate information presented to me to make informed choices about what is Fake News.</p> <p>Describe strategies for safe and fun experiences in a range of online social environments and I'm respectful to others online. (Online Relationships)</p> <p>Understand that people may have a different online identity to that in real life and am able to interact with others. (Self-Image)</p> <p>Be aware others can find information out about me by searching online. (Online Reputation)</p>	<p>Access email and can send emails to classmates and teacher.</p> <p>Create a subject specific vlog and understand the potential risks of sharing content online.</p> <p>Collaborate to develop & improve work.</p> <p>Search for someone online and create a summary report about that person.</p> <p>Understand the need for copyright and the consequences of ignoring it.</p> <p>Be aware that there are people online who may try to upset me and my group of friends. I make a positive contribution to my online community.</p>	<p>Explain how to protect my computer or device from harm on the Internet.</p> <p>Understand the need for copyright and the consequences of ignoring it.</p> <p>Support my friends to protect themselves and make good choices online, including reporting concerns to an adult.</p> <p>Be aware of the ways in which the media can shape our ideas about gender.</p> <p>Be aware of the ways in which the media can shape our ideas about gender</p>

			<p>Be aware that content online is owned by the person that created it.</p>	<p>Use a search engine and I am aware that not everything I read online is true. (Online Bullying)</p> <p>The rules of using technology at home or in school. (Health wellbeing)</p> <p>Explain what personal information is and understand the need for passwords to protect it. (Privacy and Security)</p> <p>Aware that content online is owned by the person that created it. (Copyright)</p>	<p>Understand the impact technology can have on my health, wellbeing, and lifestyle.</p> <p>Know who I should be sharing information with and how to keep my data secure.</p> <p>Understand the term identity and I can take appropriate measures to protect my own online identity</p>	<p>Know which technologies are used for online bullying and I am considerate of others when posting myself. (Online Bullying)</p> <p>Understand the impact technology can have on my health, wellbeing, and lifestyle. (Health wellbeing)</p> <p>Be aware that some people want to access my data and can take appropriate measures to ensure this doesn't happen. (Privacy and Security)</p> <p>Understand the need for copyright and the consequences of ignoring it. (Copyright)</p>	<p>Understand the impact online bullying can have and I know what to do if I am the victim or I witness online bullying.</p> <p>Understand the impact technology can have on my health, wellbeing, and lifestyle.</p> <p>Create a strong password and understand the real cost of some apps.</p> <p>Be aware that my identity can be copied by other users and take appropriate measure to minimise the risk of this happening.</p>	<p>Be aware that if I need help, I keep asking for it until I get help.</p> <p>Be aware of the need for positive online relationships and I am mindful of others feelings at all times.</p> <p>Understand I need to create a positive online reputation.</p> <p>Know how to capture evidence of online bullying and how to report it.</p> <p>Know how to keep my data private and secure.</p> <p>Understand the impact technology can have on my health, wellbeing, and lifestyle.</p>
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