



Poulton Lancelyn Primary School
Computing Aims - Progression Map

Aims: The National Curriculum for computing aims to ensure that all pupils:	Foundation	Year One	Year Two	Year Three	Year Four	Year Five	Year Six
<ul style="list-style-type: none"> Can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation. Can analyse problems in computing terms, and have repeated practical experience of writing computer programs in order to solve such problems. 	<p>To solve simple algorithms.</p> <p>Code Studio</p> <p>To use a mouse, touch screen or appropriate device to target, click and select options on a screen.</p>	<p>To write simple algorithms.</p> <p>Code Studio</p> <p>To create a simple computer program.</p> <p>Code Studio</p> <p>Scratch Junior</p>	<p>To write algorithms for everyday tasks.</p> <p>Code Studio</p> <p>To create and debug simple computer programs.</p> <p>Code Studio</p> <p>Scratch Junior</p>	<p>To decompose a task into separate steps to create an algorithm.</p> <p>Code Studio</p> <p>To understand why computers are Networked.</p> <p>To design and create programs that accomplish specific goals.</p>	<p>To use abstraction to focus on what's important in my design.</p> <p>To understand that servers on the Internet are located across the planet.</p> <p>To evaluate my program and identify errors.</p>	<p>To use logical reasoning to detect and correct errors in algorithms.</p> <p>Code Studio</p> <p>To explain how we view web pages on the Internet.</p> <p>To use logical reasoning to detect and correct errors in programs.</p>	<p>To write precise algorithms for use when programming.</p> <p>Code Studio</p> <p>To use search technologies effectively.</p> <p>Google Search</p> <p>To appreciate how pages are ranked in a search engine.</p> <p>Google Search</p> <p>To create programs that control or simulate.</p>

<p>▪ Can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems.</p>	<p>To type letters with increasing confidence using a keyboard and tablet.</p> <p>Word</p>	<p>To use a paint/drawing app to create a digital image.</p> <p>MS Paint</p>	<p>To select and use tools to create digital imagery - controlling the pen and using the fill tool.</p>	<p>To use cut, copy and paste to quickly duplicate and organise text.</p> <p>Word</p>	<p>To confidently and regularly use text shortcuts such as cut, copy and paste and delete to organise text.</p> <p>Word</p>	<p>To start to apply other useful effects to my documents such as hyperlinks.</p> <p>Word PowerPoint</p>	<p>To publish my documents online regularly and discuss the audience and purpose of my content.</p> <p>SeeSaw</p>
	<p>To sort physical objects, take a picture and discuss what I have done.</p>	<p>To increasingly confidently type words quickly and correctly on a digital device.</p>	<p>To use the space bar only once between words and use touch to navigate to words and letters to edit.</p> <p>Word</p>	<p>To confidently take and manipulate photos.</p> <p>iPads</p>	<p>To create a presentation demonstrating my understanding with a range of media.</p> <p>PowerPoint</p>	<p>To create and export an interactive presentation, including a variety of media, animations, transitions and other effects.</p> <p>PowerPoint</p>	<p>To edit a picture to remove items, add backgrounds, merge two photos.</p>
	<p>To create a simple digital collage. I can record and play a film.</p> <p>Pic Collage</p>	<p>To sort images or text into two or more categories on a digital device.</p>	<p>To create a short video with sound effects and titles.</p>	<p>To create an eBook with text, images and sound.</p>	<p>To enhance digital images and photographs using crop, brightness, contrast & resize.</p>	<p>To use simple formulae to solve calculations including =sum and other statistical functions.</p> <p>Excel</p>	<p>To write spreadsheet formula to solve more challenging maths problems.</p> <p>Excel</p>
	<p>I can use a painting app and explore the paint and brush tools.</p>		<p>To import images to a project from the web and camera roll</p>	<p>To animate a character and create a video.</p>	<p>To sequence clips of mixed media in a timeline and record a voiceover.</p>	<p>To add voice over and edit sound clips to use in a film or podcast</p>	<p>To confidently choose the best application to demonstrate my learning.</p>
	<p>I can record sounds with different resources.</p>			<p>To add music and sound effects to my videos.</p>			

<p>• Are responsible, competent, confident and creative users of information and communication technology.</p>	<p><u>Self-image & ID</u></p> <p>To recognise that I can say 'no' / 'please stop' / 'I'll tell' / 'I'll ask' to somebody who asks me to do something that makes me feel sad, embarrassed or upset.</p> <p><u>Managing online info</u></p> <p>To identify different devices, I could use to access information on the internet.</p> <p><u>Online reputation</u></p> <p>To identify ways that I can put information on the internet.</p> <p><u>Online relationships</u></p> <p>To recognise some ways in which the internet can be used to communicate.</p> <p><u>Privacy & security</u></p> <p>To identify some simple examples of my personal information</p> <p><u>Health & wellbeing</u></p> <p>To give simple examples of rules that keep us safe and healthy when using technology.</p> <p><u>Online bullying</u></p>	<p><u>Self-image & ID</u></p> <p>To recognise that there may be people online who could make me feel sad, embarrassed or upset.</p> <p><u>Managing online info</u></p> <p>To use the internet to find things out.</p> <p><u>Online reputation</u></p> <p>To describe what information I should not put online without asking a trusted adult first.</p> <p><u>Online relationships</u></p> <p>To explain why it is important to be considerate and kind to people online.</p> <p><u>Privacy & security</u></p> <p>To explain how passwords can be used to protect information and devices.</p> <p><u>Health & wellbeing</u></p> <p>To explain rules that keep us safe & healthy when we are using technology both in and beyond the home.</p> <p><u>Online bullying</u></p> <p>To describe how to behave online in</p>	<p><u>Self-image & ID</u></p> <p>To give examples of issues online that might make me feel sad, worried, uncomfortable or frightened; I can give examples of how I might get help.</p> <p><u>Managing online info</u></p> <p>To demonstrate how to navigate a simple webpage to get to information I need.</p> <p><u>Online reputation</u></p> <p>I know who to talk to if I think someone has made a mistake about putting something online.</p> <p><u>Online relationships</u></p> <p>To give examples of how I might use technology to communicate with others I don't know well.</p> <p><u>Privacy & security</u></p> <p>To describe and explain some rules for keeping my information private.</p> <p><u>Health & wellbeing</u></p> <p>To explain simple guidance for using technology in different environments and settings</p>	<p><u>Self-image & ID</u></p> <p>To explain what is meant by the term 'identity'.</p> <p><u>Managing online info</u></p> <p>To use key phrases in search engines.</p> <p><u>Online reputation</u></p> <p>To recognise I need to be careful before I share anything about myself or others online.</p> <p><u>Online relationships</u></p> <p>To explain why I should be careful who I trust online and what information I can trust them with.</p> <p><u>Privacy & security</u></p> <p>To understand and can give reasons why passwords are important.</p> <p><u>Health & wellbeing</u></p> <p>To explain why spending too much time using technology can sometimes have a negative impact on me.</p> <p><u>Online bullying</u></p> <p>To describe rules about how to</p>	<p><u>Self-image & ID</u></p> <p>To explain how my online identity can be different to the identity I present in 'real life'.</p> <p><u>Managing online info</u></p> <p>To describe how I can search for information within a wide group of technologies (e.g. social media, image sites, video sites).</p> <p><u>Online reputation</u></p> <p>To explain ways that some of the information about me on line could have been created, copied or shared by others.</p> <p><u>Online relationships</u></p> <p>To give examples of how to be respectful to others online.</p> <p><u>Privacy & security</u></p> <p>To describe strategies for keeping my personal information private, depending on context.</p> <p><u>Health & wellbeing</u></p> <p>To suggest strategies to help me limit this time the amount of</p>	<p><u>Self-image & ID</u></p> <p>To demonstrate responsible choices about my online identity, depending on context.</p> <p><u>Managing online info</u></p> <p>To evaluate digital content and can explain how I make choices from search results.</p> <p><u>Online reputation</u></p> <p>To describe ways that information about people online can be used by others to make judgments about an individual.</p> <p><u>Online relationships</u></p> <p>To describe some of the communities in which I am involved and describe how I collaborate with others positively.</p> <p><u>Privacy & security</u></p> <p>To explain how many free apps or services may read and share my private information (e.g. friends, contacts, likes, images, videos, voice, messages, geolocation) with others.</p>	<p><u>Self-image & ID</u></p> <p>To describe issues online that might make me or others feel sad, worried, uncomfortable or frightened. I know and can give examples of how I might get help, both on and offline.</p> <p><u>Managing online info</u></p> <p>To use search technologies effectively.</p> <p><u>Online reputation</u></p> <p>To describe some simple ways that help build a positive online Reputation</p> <p><u>Online relationships</u></p> <p>To demonstrate ways of reporting problems online for both myself and my friends.</p> <p><u>Privacy & security</u></p> <p>To describe effective strategies for managing my passwords.</p> <p><u>Health & wellbeing</u></p> <p>To demonstrate the strategies I use to do regulating my use of technology</p>
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	<p>To offer examples of how being unkind online can make others feel.</p> <p><u>Copyright and ownership</u></p> <p>To name my work so that others know it belongs to me.</p>	<p>ways that do not upset others and can give examples.</p> <p>Copyright and ownership</p> <p>To save my work so that others know it belongs to me.</p>	<p><u>Online bullying</u></p> <p>To talk about how someone can/would get help about being bullied online or offline.</p> <p><u>Copyright and ownership</u></p> <p>To recognise that content on the internet may belong to other people.</p>	<p>behave online and how I follow them.</p> <p><u>Copyright and ownership</u></p> <p>To explain why copying someone else's work from the internet without permission can cause problems.</p>	<p>time I use technology.</p> <p><u>Online bullying</u></p> <p>To identify some online technologies where bullying might take place.</p> <p><u>Copyright and ownership</u></p> <p>When searching on the internet for content to use, to explain why I need to consider who owns it and whether I have the right to reuse it.</p>	<p><u>Health & wellbeing</u></p> <p>To describe some strategies, tips or advice to promote healthy sleep with regards to technology.</p> <p><u>Online bullying</u></p> <p>To describe how to get help for someone that is being bullied online and assess when I need to do or say something or tell someone.</p> <p><u>Copyright and ownership</u></p> <p>To give examples of content that is permitted to be reused.</p>	<p><u>Online bullying</u></p> <p>To identify a range of ways to report concerns both in school and at home about online bullying.</p> <p><u>Copyright and ownership</u></p> <p>To demonstrate how to make references to and acknowledge sources I have used from the internet.</p>

Key:



Computer Science



Information Technology



Digital Literacy