



Swalecliffe Community Primary School  
Child First, Pupil Second

## COMPUTING - Progression of Skills and Knowledge

Year Group	Computer Science	Information Technology	Digital Literacy
Year 6	<ul style="list-style-type: none"><li>I can create a program using a text based programming language and use logical reasoning to detect and correct errors in algorithms.</li><li>I can design, plan and create a complex program and improve it by debugging and modifying it.</li></ul>	<ul style="list-style-type: none"><li>I can create a digital storyboard to plan a project or investigation.</li><li>I can create and combine a range of media in order to produce digital content through collaboration and edit my work to improve it.</li></ul>	<ul style="list-style-type: none"><li>I know how search results are selected and ranked and understand that other people may be attempting to influence my opinions.</li><li>I can explain how to protect my computer or device from harm on the Internet and I know how to keep my data private and secure.</li><li>I can discuss how to create a positive online reputation, how to support others in good choices and I understand the impact technology can have on our health, wellbeing and lifestyle.</li><li>I am aware of the ways in which the media can shape our ideas about gender.</li><li>I know how to capture evidence of online bullying and how to report it, ensuring I get the help I need.</li></ul>
Year 5	<ul style="list-style-type: none"><li>I can design an algorithm to write a program and use logical reasoning to detect and debug it.</li></ul>	<ul style="list-style-type: none"><li>I can record and produce a song using unfamiliar technology and improve the quality of my work.</li></ul>	<ul style="list-style-type: none"><li>I can collaborate to create a subject specific vlog and understand the potential risks of sharing content online.</li></ul>

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	<ul style="list-style-type: none"> <li>I can explore networks and internet traffic and can create my own web page using HTML.</li> </ul>	<ul style="list-style-type: none"> <li>I can translate binary numbers to decimal and can use a spreadsheet to collect and record data.</li> <li>I can access school email and send emails to classmates or teacher.</li> </ul>	<ul style="list-style-type: none"> <li>I can search for someone online and create a summary report about that person.</li> <li>I understand the need for copyright and the consequences of ignoring it.</li> <li>I know how to make a positive contribution to my online community and I understand the impact online bullying can have (knowing what to do if I am the victim or I witness online bullying).</li> <li>I can create a strong password and understand the real cost of some apps.</li> </ul>
<b>Year 4</b>	<ul style="list-style-type: none"> <li>I can design and write a program for a given purpose and test it to see how it can be improved.</li> <li>I can design an algorithm to simulate a real-life situation and solve an open-ended problem by breaking it up into smaller parts.</li> </ul>	<ul style="list-style-type: none"> <li>I can create a video or animation and improve it by using editing and formatting techniques.</li> <li>I can explain common file types.</li> </ul>	<ul style="list-style-type: none"> <li>I can collaborate online to create digital content.</li> <li>I can evaluate information presented to me to make informed choices about what is Fake News.</li> <li>I understand that people may have a different online identity to that in real life and am able to interact with others and I understand the different methods of communication.</li> <li>I understand where and how cyberbullying can take place and I know how to behave respectfully online.</li> <li>I am aware that some people want to access my data by searching online and can take appropriate measures to ensure this doesn't happen. (Privacy and Security)</li> </ul>

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<b>Year 3</b>	<ul style="list-style-type: none"> <li>• I can use decomposition to help me solve computing problems by using logical reasoning to predict and correct errors in algorithms and programs.</li> <li>• I can work with various forms of input and output and I can use sequence, selection, repetition and variables in programs.</li> <li>• I can explain how the internet including search engines work.</li> </ul>	<ul style="list-style-type: none"> <li>• I can create and discuss different types of digital content and file types and troubleshoot when something is not working.</li> <li>• I can collect, analyse, evaluate and present data and information and can improve the quality and presentation of my work where necessary.</li> <li>• I can use advanced search tools.</li> </ul>	<ul style="list-style-type: none"> <li>• I understand the impact technology can have on my health, well-being and lifestyle and can recognise what bullying is and know where to go for help.</li> <li>• I understand the term identity and am aware of what information I can share and who I can trust to share it with.</li> <li>• I understand the need for copyright and the consequences of ignoring it.</li> </ul>
<b>Year 2</b>	<ul style="list-style-type: none"> <li>• I can plan out an algorithm with a sequence of commands to carry out specific tasks.</li> <li>• I can identify 'bugs' in computer programs and use the term debug in context.</li> <li>• I can create a simple program including a loop and predict the outcome of a sequence of blocks in Scratch.</li> </ul>	<ul style="list-style-type: none"> <li>• I can save, share and retrieve my digital work and use technology to organise and present my ideas.</li> <li>• I can collect and record data purposefully.</li> </ul>	<ul style="list-style-type: none"> <li>• I can give examples of how technology is used to communicate beyond school.</li> <li>• I can use online services to communicate safely and understand that once something is posted you lose control if it.</li> <li>• I can talk about online bullying behaviour and discuss what to do if someone upsets me online.</li> <li>• I know how to be safe online and can discuss; personal information, security, copyright and The Rules of using technology.</li> <li>• I can use a search engine and I am aware that not everything I read online is true.</li> </ul>

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Year 1	<ul style="list-style-type: none"> <li>• I can use logical reasoning to predict the outcome of simple programs.</li> <li>• I can follow or create algorithms that can be turned into a program using a robot or digital device and independently debug simple sequence errors.</li> </ul>	<ul style="list-style-type: none"> <li>• I can do the basics with technology and take a good quality photograph and video on an iPad/digital camera.</li> <li>• I can use technology to create and present my ideas.</li> <li>• I can do the basics with technology and take a good quality photograph and video on an iPad/digital camera.</li> <li>• I can organise and store my digital work (can children find and delete unwanted videos/photos and access the ones they need).</li> </ul>	<ul style="list-style-type: none"> <li>• I can use a search engine and recognise the ways we use technology in our classroom, my home and community.</li> <li>• I understand how to behave online in ways that do not upset others.</li> <li>• I know the rules of using technology at home or in school.</li> <li>• I can explain what personal information is and give examples of it.</li> </ul>