



Computing Progression of Skills

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Online Safety	Knows who to tell if they feel unsafe online	<ul style="list-style-type: none"> o Know how to behave appropriately online and know how to stay safe online o Explain what personal information is. 	<ul style="list-style-type: none"> o Use technology safely including following e-safety rules and understanding 'cyberbullying' o Use web sites and search engines effectively and safely, including understanding that they leave a 'digital trail' 	<ul style="list-style-type: none"> o Protect personal information online and know how to use safety features on websites. Ask an adult before clicking on links or downloads. o Show respect online and behave in a considerate way. 	<ul style="list-style-type: none"> o Know that anything shared online can be seen by others and know ways that I can protect myself from harm online and identity theft. o Use technology safely and responsibly, including being aware of plagiarism 	<ul style="list-style-type: none"> o Identify the importance of staying safe online by choosing secure passwords. o Learn about spam and how to identify strategies to deal with it and how photos can be easily edited. o Know how to cite sources when researching for information. 	<ul style="list-style-type: none"> o Explain the consequences of what is shared online and of not communicating kind and respectfully online. Know how to report any concerns online to an adult o Investigate how the media contribute to gender stereotyping.
Program ming		<ul style="list-style-type: none"> o Predict what will happen from a short algorithm. o Debug and correct mistakes when programming. o Give instructions to a friend and follow their instructions to move around and 	<ul style="list-style-type: none"> o Talk about the order needed to program things, understand what an algorithm is and program a robot to do a particular task. o Create and debug simple programmes 	<ul style="list-style-type: none"> o Break an open-ended program into smaller parts and use the repeat command. o Test programs and identify when they need to be debugged. 	<ul style="list-style-type: none"> o Design, write and simplify programs o Continue to debug programs and recognise their use in to help solve problems in other areas of learning such as maths, science and design 	<ul style="list-style-type: none"> o Begin to use variables to increase programming possibilities. o Use logical thinking, imagination and creativity to extend a program. 	<ul style="list-style-type: none"> o Evaluate the effectiveness and efficiency of an algorithm while continually testing the programming of that algorithm. o Use logical reasoning to detect and correct errors in algorithms and



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		press buttons in the correct order to make a robot move.			technology.		programs.
Multimedia	Can use a simple computer program	o Use technology to create and present ideas and save information and retrieve it again.	o Open and save documents and use the keyboard to type short extracts o Use multimedia to present ideas in different ways	o Combine a mixture of text, graphics and sound to share ideas.	o Use software, including that for photos, video or sound to present to different audiences.	o Use text, sound and video editing tools to refine work.	o Talk about audience, atmosphere and structure when planning a particular outcome. Combine a range of media, recognising the contribution of each to achieve a particular outcome.
Technology in our Lives	Develops an understanding of how we use technology to help us in our lives.	o Know where technology is used in the world around us.	o Understand why technology is used in the wider world and the benefits of this for finding information and communicating.	o Understand computer networks. Identify ways to communicate with others online and use search tools to find and use appropriate websites.	o Identify key words when searching for information online and be able to create hyperlinks to resources on the World Wide Web.	o Describe the different parts of the internet and use search engines to find information and check its reliability.	o Discuss ways search results are selected and ranked and know how information is transported on the internet. o Check reliability of websites and understand copyright laws.



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Handling Data			o Discuss different ways that you can use technology to collect information and begin to use branching databases.	o Collect and organise data to help answer a question.	o Organise data in different ways and to plan, create and search databases to answer questions.	o Use spreadsheets and databases to collect, organise, analyse, evaluate and present data.	o Select the most effective tool to collect data for an investigation and interpret the data collected.
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