

## Computing Non Negotiables

Technology threads	Pos /Technology Strand	Year 6
<b>Programming</b>	<p>design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts</p> <p>use sequence, selection, and repetition in programs; work with variables and various forms of input and output</p> <p>use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</p>	<ul style="list-style-type: none"> <li>• Break problems into smaller parts to achieve a solution</li> <li>• Design and write programs to answer own questions</li> <li>• Test, evaluate and refine</li> <li>• Use programs to simulate real world experiences</li> <li>• Understand when a variable is needed in a program</li> <li>• Use one or more input and predict then test outcomes</li> <li>• Understand that effective algorithms and procedures are used to solve problems and planned outcomes</li> <li>• Detect and correct errors and identify the errors in the original algorithm</li> </ul>
<b>Data</b>	<p>select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</p>	<ul style="list-style-type: none"> <li>• Select the most appropriate tool for the task</li> <li>• Understand why information is presented in different ways</li> <li>• Set own challenges</li> <li>• Use formula in a spreadsheet to present and analyse information</li> <li>• Present the results appropriately</li> <li>• Critically evaluate data</li> <li>• Identify the purpose of a task and select the most appropriate tool/s for effectiveness</li> <li>• Store information online where it can be shared with others</li> <li>• Use sound/images/text/transitions/hyperlinks/html code effectively for presenting work</li> <li>• Evaluate effectiveness of own and others work.</li> </ul>
<b>Understanding</b>	<p>understand computer networks including the internet; how they can provide multiple services, such as the world-wide web; and the opportunities they offer for communication and collaboration</p> <p>use search technologies effectively, appreciate how results are selected and ranked,</p>	<ul style="list-style-type: none"> <li>• Recognise and describe the services that are part of the internet</li> <li>• Use email attachments, upload documents to shared space in order to understand protocols</li> <li>• Share and collaborate using a range of online resources:</li> </ul>

	and be discerning in evaluating digital content	forums, messaging, e-portfolios, apps <ul style="list-style-type: none"> <li>• Choose and evaluate appropriate tools</li> </ul>
Using Effectively	select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information  use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content	<ul style="list-style-type: none"> <li>• Use search engines as part of effective research</li> <li>• Describe how search results are selected and ranked</li> </ul>
Keeping Safe	use technology safely, respectfully and responsibly; know a range of ways to report concerns and inappropriate behaviour	<ul style="list-style-type: none"> <li>• Behave responsibly and respectfully online</li> <li>• Understand how to use social networking sites appropriately</li> <li>• Know how to protect oneself online</li> <li>• Understand how information sharing carries a responsibility</li> <li>• Recognise the risks and rewards when using the Internet</li> <li>• Respect the privacy of themselves and others</li> </ul>

Reviewed Feb, 2014  
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*Being a Digital Citizen, creator,  
communicator*