

Computing Non Negotiables

Technology threads	Pos /Technology Strand	Year 5
Programming	<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"> • Recognise that problems should be broken into smaller parts in order to achieve a solution effectively • Use if... then..... • Sense change to begin an action • Begin to understand the need for a variable in a program • Change an input and observe output • Recognise that effective algorithms and procedures are important for achieving required outcomes • Understand that logical reasoning enables the detection and then correction of errors • Difference between and algorithm and program
Data	<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"> • Explore and use a range of data handling resources. • Use a spreadsheet or database for collecting data • Formulate questions accurately in order to solve problems • Analyse information and interrogate the data • Use a range of technology to present information for an audience • Combine media in order to present information effectively • Share using a variety of tools both on and offline • Evaluate and refine to produce effective presentations
Understanding	<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, and be discerning in evaluating digital content</p>	<ul style="list-style-type: none"> • Understand that online content should not be adapted without permission or acknowledgement • Understand the importance of evaluating online information • Understand how different devices connect to the internet • Understand how to share and collaborate online using

		blogs, wikis, messaging <ul style="list-style-type: none"> • Identify elements on a web page
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"> • Use effective strategies to search with appropriate search engines
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"> • Make good choices when they present themselves online • Know how to protect online identity • Choose a secure password • Know what is appropriate and inappropriate use of the internet • Know how to use Report Abuse button • Understands both rights and responsibilities when online