

Progression of skills in Computing

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Computer Science	<ul style="list-style-type: none"> Understand what algorithms are Create simple programs 	<ul style="list-style-type: none"> Understand that algorithms are implemented as programs on digital devices Understand that programs execute by following precise instructions Debug simple programs Use logical reasoning to predict the behaviour of simple programs 	<ul style="list-style-type: none"> Write programs that accomplish specific goals Use sequence in programs Work with various forms of input Work with various forms of output 	<ul style="list-style-type: none"> Design programs that accomplish specific goals Design and create programs Debug programs that accomplish specific goals Use repetition in programs Control or simulate physical systems Use logical reasoning to detect and correct errors in programs Appreciate how search results are selected 	<ul style="list-style-type: none"> Solve problems by decomposing them into smaller parts Use selection in programs Work with variables Use logical reasoning to explain how some simple algorithms work Use logical reasoning to detect and correct errors in algorithms Understand computer networks, including the internet Appreciate how search results are ranked 	<ul style="list-style-type: none"> Design and write programs to solve problems Use sequences, repetition, inputs, variables and outputs in programs Detect and correct errors in programs Understand uses of networks for collaboration & communication Be discerning in evaluating digital content Understand computer networks, including the internet Appreciate how search results are ranked
Information Technology	<ul style="list-style-type: none"> Use technology purposefully to create digital content Use technology purposefully to organise digital content Use technology purposefully to retrieve digital content 	<ul style="list-style-type: none"> Use technology purposefully to organise digital content Use technology purposefully to manipulate digital content Use technology purposefully to retrieve digital content 	<ul style="list-style-type: none"> Use search technologies effectively Use a variety of software to accomplish given goals Collect information Design and create content Present information 	<ul style="list-style-type: none"> Select a variety of software to accomplish given goals Select, use and combine internet services Design and create content Collect and present data Present information 	<ul style="list-style-type: none"> Combine a variety of software to accomplish given goals Select, use and combine software on a range of digital devices Analyse information Evaluate information Collect and present data Present information 	<ul style="list-style-type: none"> Combine a variety of software to accomplish given goals Select, use and combine software on a range of digital devices Analyse data Evaluate data Design and create systems Present information
Digital Learning	<ul style="list-style-type: none"> Use technology safely Keep personal information private Recognise common uses of information technology beyond school 	<ul style="list-style-type: none"> Use technology respectfully Identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies 	<ul style="list-style-type: none"> Use technology responsibly Identify a range of ways to report concerns about contact 	<ul style="list-style-type: none"> Use technology responsibly Understand the opportunities computer networks offer for communication Identify a range of ways to report concerns about content 	<ul style="list-style-type: none"> Use technology responsibly Understand the opportunities computer networks offer for collaboration Be discerning in evaluating digital content Recognise acceptable/unacceptable behaviour 	<ul style="list-style-type: none"> Use technology responsibly Understand the opportunities computer networks offer for collaboration Be discerning in evaluating digital content