



"Whether you want to uncover the secrets of the universe, or you want to pursue a career in the 21 <sup>st</sup> Century, basic computer									
programming is an essential skill to learn"									
	Prof. Stephen Hawking								
	TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6			
	<u>Online Safety/Exploring</u> <u>Purple Mash</u>	<u>Pictograms</u> -Use technology	<u>Maze Explorers</u> -Understand what	<u>Animated Story Books</u> -Use technology	<u>Coding</u> -Understand what	<u>Spreadsheets</u> -Use technology			
81	-Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies. (DL)	purposefully to create, organise, store, manipulate and retrieve digital content. (IT) <u>Lego Builders</u> -Understand what algorithms are; how they are implemented as programs on digital	algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. (CS) -Create and debug simple programs. (CS)	purposefully to create, organise, store, manipulate and retrieve digital content. (IT)	algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. (CS) -Create and debug simple programs. (CS)	purposefully to create, organise, store, manipulate and retrieve digital content. (IT) <u>Technology Outside</u> <u>School</u> -Recognise common uses of information technology beyond school. (DL)			
YEAR	Grouping and Sorting -Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. (CS)	devices; and that programs execute by following precise and unambiguous instructions. (CS)	-Use logical reasoning to predict the behaviour of simple programs. (CS)		-Use logical reasoning to predict the behaviour of simple programs. (CS) -Use technology purposefully to create, organise, store, manipulate and retrieve digital content. (IT)				

TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6
<u>Coding</u>	<u>Online Safety</u>	Questioning	Effective Searching	Creating Pictures	<u>Making Music</u>
<ul> <li>-Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. (CS)</li> <li>-Create and debug simple programs. (CS)</li> <li>-Use logical reasoning to predict the behaviour of simple programs. (CS)</li> </ul>	-Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies. (DL) <u>Spreadsheets</u> -Use technology purposefully to create, organise, store, manipulate and retrieve digital content. (IT)	-Use technology purposefully to create, organise, store, manipulate and retrieve digital content. (IT)	-Use technology purposefully to create, organise, store, manipulate and retrieve digital content. (IT) -Recognise common uses of information technology beyond school. (DL)	-Use technology purposefully to create, organise, store, manipulate and retrieve digital content. (IT)	-Use technology purposefully to create, organise, store, manipulate and retrieve digital content. (IT) <u>Presenting Ideas</u> -Use technology purposefully to create, organise, store, manipulate and retrieve digital content. (IT)

	TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6
	<u>Coding</u>	<u>Online Safety</u>	Touch Typing	<u>Email</u>	Branching Databases	<u>Graphing</u>
YEAR 3	<ul> <li>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. (CS)</li> <li>Use sequence, selection and repetition in programs; work with variables and various forms of input and output. (CS)</li> <li>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. (CS)</li> </ul>	-Use technology safely, respectfully and responsibly: recognise acceptable/unacceptable behaviour: identify a range of ways to report concerns about content and contact. (DL) <u>Spreadsheets</u> -Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT)		-Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT) -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. (CS) -Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. (DL)	-Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT) <u>Simulations</u> -Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT)	-Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT) -Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT)

TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6
<u>Coding</u>	<u>Online Safety</u>	<u>Spreadsheets</u>	Writing for Different Audiences	Logo	Effective Search
<ul> <li>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. (CS)</li> <li>Use sequence, selection and repetition in programs; work with variables and various forms of input and output. (CS)</li> <li>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. (CS)</li> <li>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT)</li> </ul>	-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. (CS) -Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. (DL) <u>Making Music</u> -Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT)	-Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT)	<u>Audiences</u> -Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT)	<ul> <li>-Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. (CS)</li> <li>-Use sequence, selection and repetition in programs; work with variables and various forms of input and output. (CS)</li> <li>-Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. (CS)</li> <li>-Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT)</li> </ul>	-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. (CS) -Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. (IT) Hardware Investigators -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. (CS)

**YEAR 4** 

	TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6
	<u>Coding</u>	<u>Online Safety</u>	<u>Databases</u>	<u>Game Creator</u>	<u>3D Modelling</u>	Word Processing
YAER 5	<ul> <li>-Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. (CS)</li> <li>-Use sequence, selection and repetition in programs; work with variables and various forms of input and output. (CS)</li> <li>-Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. (CS)</li> <li>-Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT)</li> </ul>	-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. (CS) -Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. (DL) <u>Spreadsheets</u> -Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT)	-Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT)	-Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. (CS) -Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT)	-Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT) <u>Concept Maps</u> -Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT)	-Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT)

	TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6
	<u>Coding</u>	<u>Online Safety</u>	<u>Spreadsheets</u>	Blogging	<u>Text Adventures</u>	<u>Networks</u>
YEAR 6	<ul> <li>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. (CS)</li> <li>Use sequence, selection and repetition in programs; work with variables and various forms of input and output. (CS)</li> <li>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. (CS)</li> <li>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT)</li> </ul>	-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. (CS) -Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. (IT) -Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. (DL) <u>Understanding Binary</u>	-Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT) -Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. (CS)	-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. (CS) -Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT) -Use technology safely, respectfully and responsibly: recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. (DL)	-Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. (CS) -Use sequence, selection and repetition in programs; work with variables and various forms of input and output. (CS) -Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. (CS) -Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT)	-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. (CS) <u>Quizzing</u> -Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. (IT)