Computing (Year 7)

Term 1

Strands	Computing Knowledge	Computing Skill
I Can Statements	I understand the importance of safety when using the Internet	I can use basic HTML
	I can explain what cyber bullying is and what methods cyber bullies often use	I can use all aspects of the CALC successfully
	I can identify which categories of personal information are acceptable to disclose on personal profiles	I can use a number of tools on Dreamweaver

Mastery Statements	Emerging	Developing	Mastering
I can use all aspects of the CALC successfully	I can use my Academy E-mail	I can use my Academy E-mail, Google Drive & SMHW	I can successfully use all aspects of the CALC
I understand the importance of safety when using the Internet	I am aware of the dangers online	I am aware of the dangers online & how to report them	I am aware of the dangers online & how to report them and also how to prevent them.
I can explain what cyber bullying is and what methods cyber bullies often use	I can explain the term cyberbullying	I can explain the term cyberbullying and how it is carried out	I can explain the term cyberbullying, how it is carried out & how to prevent it.
I can identify which categories of personal information are acceptable to disclose on personal profiles	I am aware of some of the information which is OK to share with others online.	I am fully aware of all of the information which is OK to share with others online.	I am fully aware of all of the information which is OK to share with others online and what not to
I can use a number of tools on Dreamweaver	Use the basic tools on Dreamweaver	Create internal & external links on Dreamweaver	Create a fully functional website
I can use basic HTML	use some basic HTML tags	use a range of useful HTML tags	use a range of useful HTML tags and explain them

Term 2

Strands	Computing Knowledge	Computing Skill
I Can Statements	I can explain what a computer system is	Convert between binary and hexadecimal
	I can explain a range of computer devices	Explain the effects of a binary shift
	I can explain the difference between input & output devices	Explain the purpose of a check digit
	I can explain the difference between hardware and software	
	I can define the main parts of internal computer hardware	
	Explain why all data needs to be converted to binary before the computer can process it	

Mastery Statements	Emerging	Developing	Mastering
I can explain what a computer system is	I can identify a computer system	I am fully aware what a computer system is	I can explain in detail what a computer system is
I can explain a range of computer devices	I understand different computer devices	I can explain a range of computer devices	I can explain a wide range of computer devices
I can explain the difference between input & output devices	I can explain the difference between input & output devices	I can explain and define the difference between input & output devices	I can explain and define the difference between input & output devices and also identify them
I can explain the difference between hardware and software	I can explain the difference between hardware and software	I can explain the difference between hardware and software and give examples	I can define the difference between hardware and software and give examples
I can define the main parts of internal computer hardware	I know the main parts of the internal computer	I can identify the main parts of internal computer hardware	I can identify & define the main parts of internal computer hardware
Explain why all data needs to be converted to binary before the computer can process it	I can explain why binary is used	I can explain a range of examples where binary is used	I can explain how data is converted into binary
Convert between binary and hexadecimal	I can explain binary and hexadecimal	I can convert binary to hexadecimal	I can convert hexadecimal to binary
Explain the effects of a binary shift	I can explain binary shift	I can give examples of binary shift	I can work out binary shift problems
Explain the purpose of a check digit	I can explain the purpose of check digit	I can identify areas where check shift is used	I can confidently work out check shifts

Term 3

Strands	Computing Knowledge	Computing Skill
I Can Statements	Identify what programming language is	Write and explain what syntax means
	Identify what a variable is	Create a basic functioning programming in BBC MicroBit
	I can explain the meaning of the constructs of programming	I can create a program to display variables.
		I can create a program which usings inputs & outputs
		I can create a program to display variables.

Mastery Statements	Emerging	Developing	Mastering
I understand the importance of safety when using the Internet	I can identify a programming language	I can identify a programming language and give examples	I can identify a programming language and understand where they are used
Write and explain what syntax means	I can explain what a syntax is	I can understand and highlight a syntax	I can resolve a basic syntax error
Identify what a variable is	I can identify a variable	I can create a variable	I can use scope in variables
Create a basic functioning programming in BBC MicroBit	I can create a final project using a function	I can create a final project using a range of functions	I can create final project using a range of functions
I can create a program to display variables.	Create a variable to hold a value	Create a variable to hold a value & print the value	Create a range of variables which hold values & print the values
I can create a program which usings inputs & outputs	Create code for inputs & outputs	Create code with user interaction on inputs & outputs	Create code with user interaction on inputs & outputs & explain them
I can explain the meaning of the constructs of programming	Explain a sequence	Explain a sequence & selection	Explain a sequence, selection & iteration