



## Bideford College Computing Faculty: Key Stage 2 – 4 Progress Matrix

		In order to get a <b>grade 1</b> at GCSE you must be able to	In order to get a <b>grade 2</b> at GCSE you must be able to	In order to get a <b>grade 3</b> at GCSE you must be able to	In order to get a <b>grade 4</b> at GCSE you must be able to	In order to get a <b>grade 5</b> at GCSE you must be able to	In order to get a <b>grade 6</b> at GCSE you must be able to	In order to get a <b>grade 7</b> at GCSE you must be able to	In order to get a <b>grade 8</b> at GCSE you must be able to	In order to get a <b>grade 9</b> at GCSE you must be able to
Digital Literacy	Data	C1.1: save & load files on the network with assistance.	C1.2: save & load files on the network with assistance.	C3.1: save & load files on the network independently.	C4.1: save & load files on the network independently, and organise your files with assistance.	C5.1: save & load files on the network independently, organise your files with some assistance.	C6.1: save, load and organise files on the network independently.	C7.1: save, load & organise files on the network independently, select suitable file types with help.	C8.1: save, load and organise files on the network and select appropriate file types independently	
	E-Safety	C1.2: recognise inappropriate content online and understand how to use technology securely.	C2.2: recognise inappropriate conduct online and use technology securely and safely.	C3.2: recognise inappropriate contact online and use technology securely, safely and responsibly.	C4.2: recognise inappropriate content, conduct and contact online, be aware of how to report concerns.	C5.2: recognise inappropriate content, conduct and contact online and know how to report concerns.	C6.2: know how to protect your identity & content online & exactly how to report suspicious activity.	C7.2: understand a range of ways to use technology safely, effectively, respectfully & responsibly.	C8.2: assess how changes in technology affect safety, including ways to protect your online privacy.	C9.2: use your e-safety knowledge to help & advise young people & the local community about e-safety.
Computer Science	Computatio	C1.3: understand how a problem can be broken down into smaller parts	C2.3: recognise and correct errors in pseudocode.	C3.3: write pseudocode for given purpose with some assistance.	C4.3: independently write pseudocode for a given purpose.	C5.3: write pseudocode with some assistance and an associated flowchart for a given purpose.	C6.3: independently write pseudocode and an associated flowchart for given purpose.	C7.3: independently write pseudocode and an associated flowchart for complex problems.	C8.3: independently write pseudocode & an associated flowchart for real world problems.	C9.3: use algorithms to design computational abstractions to solve real world problems.
	Programming	C1.4: enter code accurately.	C2.4: plan & enter a sequence of instructions by adapting existing code for a given purpose.	C3.4: plan & accurately enter code for a given purpose also identify and describe errors in code.	C4.4: use selection & repetition in your code with some help. Explain what is happening in your code.	C5.4: accurately use different variables, selection & repetition in your code to explain it.	C6.4: accurately use different data types, variables, selection & repetition in your code, with help.	C7.4: with limited help design, develop and code a solution to a given problem.	C8.4: competently design, develop, code and test a solution to a given problem.	C9.4: independently design, develop, code, test a working solution for a real world problem.
	Hardware, software & Networks	C1.5: understand networks and how they can provide multiple services, such as the world wide web.	C2.5: understand the difference between the internet and the web.	C3.5: understand the hardware components that make up computer systems.	C4.5: describe the functions of hardware components that make up computer systems.	C5.5: understand the software components that make up computer systems.	C6.5: explain the functions of the hardware and software components that make up computer systems.	C7.5: understand how instructions are stored by computer systems.	C8.5: explain how computer systems components communicate with one another affecting performance.	
	Boolean &	C1.6: understand how pictures can be represented digitally in the form of binary digits.	C2.6: convert simple binary numbers to decimal.	C3.6: understand how text can be represented digitally in the form of binary digits.	C4.6: understand why data is represented in computer systems in binary form.	C5.6: perform simple operations in binary.	C6.6: understand simple Boolean logic and some of its use in circuits and programming.	C7.6: understand how sounds can be represented digitally in the form of binary digits.	C8.6: describe the range of ways data is represented in computer systems in binary form.	C9.6: explain how and why data is represented in computer systems in binary form.
ICT	Word processing	C1.7: load, edit and save an existing document using appropriate software with some assistance.	C2.7: create, edit and save a presentation using appropriate software with some assistance.	C3.7: improve the presentation of a word processed document for a specific purpose.	C4.7: improve the design of a presentation for a specific purpose.	C5.7: use advanced design & presentation features across a range of software with some help.	C6.7: independently select & use appropriate software using a range of features for a given purpose.	C7.7: identify the benefits & limitations of relevant software to ensure fitness for purpose.	C8.7: explain the benefits & limitations of software to others to ensure fitness for purpose.	
	Spreadsheets	C1.8: understand cell references and create and save a simple spreadsheet with assistance.	C2.8: understand and use simple formulae in spreadsheets to achieve a given outcome with help.	C3.8: understand & use a range of formulae in spreadsheets to achieve a given outcome with some help.	C4.8: perform simple searches (using a database) to obtain specific information.	C5.8: create a spreadsheet to solve a given real world problem.	C6.8: use a spreadsheet to create a model to provide possible solutions to real world problems.	C7.8: create simple (flat file) database to solve a problem with assistance.	C8.8: create relational database to solve a problem with assistance.	C9.8: create a relational database to solve a real world problem.
	Literacy	C1.9: spell simple words and some business related words correctly.	C2.9: spell simple words & some business words correctly. Punctuation used within sentences.	C3.9: spell most key words correctly and begin to use them in your work.	C4.9: spelling & grammar is mostly correct. Key words are used some of the time to develop answers.	C5.9: spelling and grammar is generally accurate, and there is use of key terms in most of your work.	C6.9: spell most words correctly, including key terms which are used in your work.	C7.9 spell nearly all words correctly and use key terms throughout your work.	C8.9 spell flawlessly & consistently using key terms throughout your work. Construct paragraphs well.	
	Numeracy	C1.10: demonstrate a some understanding of formulas carried out.	C2.10: demonstrate a good use of numbers to carry out basic calculations in a spread sheet.	C3.10: solve basic four function problems using correct mathematical symbols.	C4.10: begin to use simple formulae expressed as words.	C5.10: convert one metric unit to another. Able to use algebraic expressions.	C6.10: carry out substantial mathematical tasks and solve problems independently.	C7.10: be able to use a mixture of functions to achieve desired outcomes within spreadsheets.	C8.10: solve problems using complex functions within software such as Excel.	C9.10: use mathematical language and symbols effectively in software models to justify a solution.