KS3-KS4	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9
	I need help to	I can write a set of	I have practised	I can analyse and	I can analyse and	I can analyse and	I can analyse and	I can analyse and
	break problems	instructions with	writing sequences	decompose a simple	decompose a more	decompose a	decompose a more	decompose a range
Communitor	down	some processing	and don't need	problem, create an	complex problem, create	complex problem,	complex problem	of complex
Computer		and a decision	much help to make	algorithm with some	an algorithm with some	create an algorithm	and create an	problems and
Science	I have made an	(selection)	my own	help	help	without any help	algorithm without	create an algorithm
programming	algorithm with an	I have made an	,			l mandatany neip	any help.	without any help
P. OB. G	input and output	I have made an algorithm with a	I can work out the	The algorithm is nearly	The algorithm will be	The algorithm will	arry ricip.	Without any neip
	I have written a	decision	outcome of an	perfect, includes	mostly accurate	be accurate	I can write an	I can use a range of
	program with an	decision	algorithm using	variables, decisions	,		algorithm using a	programming
	input	I can write a	different data	and a loop	I am confident in using at	I can use more	flow chart and	techniques in two
		program (using a		,	least one text based	than one text	pseudo code	text based
Algorithms	I can state what a	block/object	I have made an	I can use the algorithm	language	based		languages
	variable is	orientated .	algorithm with a	to create a program in		programming	The algorithm will	confidently
		programming	loop (iteration)	a text based language	I can use a procedure in	language	be accurate	,
	I can add, subtract,	language) with a decision (selection)			my code			I can write efficient
(大)	divide and multiply	decision (selection)	I can write a	I can explain what		I can use a range of	I can use a range of	code using a wide
	simple numbers	I can use a variable	program with a	variables/ data types I	I can research and find	casting and file	programming	range of
The state of the s	Simple numbers		loop (iteration)	would need	new ways to program	handling skills	techniques in two	techniques, data
Programming		I can add, subtract,	I can explain		problems (functions)		text based	structures and
		divide and multiply	where I need	I can write a program	Language a 2	I always write my	languages	recursion
		2 digit numbers	variables	using casting/ file	I can create a 2	programs using		
				handling	dimensional array	procedure/	I can write efficient	I systematically
010110			I can give an	Lagra suminim unhah	I can solve Boolean logic	suitable functions	code using a range	resolve errors and
001101 101010			example of a data	I can explain what	problems of more than 2		of techniques	build robust
			type	functions/procedures	levels	I can write nested		programs
Computational			I can solve a simple	are	icveis	statements	I can apply	
thinking			Boolean logic	I can solve Boolean	I solve a MOD/DIV	I can explain what	MOD/DIV and	
Cilliking			problem	logic problems (2	problem	exponential means	exponential to	
			'	levels)	,	exponential means	solve problems	
			I know what the	ieveisj	I can use records to store	I can access/	I systematically	
			system life cycle is	I explain MOD/DIV	data	modify 1d and 2d	resolve errors and	
			l			arrays	build robust	
			I can explain why I	I can create and store	I use a range of tests for			
			need to test my program	data in a 1d array	my program	I can use a query	programs	
			Program	-	systematically	language/search		
				I always test my		for data		
				program				
						Tests are through		

KS3 – Year 7	Grade 2	Grade 3	Grade 4	Grade 5
	I need help to break	I can write a set of	I have practised writing	I can analyse and decompose a
Computer Science programming	I have made an algorithm with an input and output	instructions with some processing and a decision (selection)  I have made an algorithm	sequences and don't need much help to make my own	simple problem, create an algorithm with some help  The algorithm is nearly perfect,
Algorithms	I have written a program with an input  I can state what a variable is	with a decision  I can write a program (using a block/object orientated programming language) with a decision (selection)	I can work out the outcome of an algorithm using different data  I have made an algorithm with a loop (iteration)	includes variables, decisions and a loop  I can use the algorithm to create a program in a text based language
	I can add, subtract, divide and multiply simple	I can use a variable	I can write a program with a loop (iteration)	I can explain what variables/ data types I would need
Programming	numbers	I can add, subtract, divide and multiply 2 digit numbers	I can explain where I need variables	I can write a program using casting/ file handling
010110 001101 101010			I can give an example of a data type	I can explain what functions/procedures are
Computational thinking			I can solve a simple Boolean logic problem	I can solve Boolean logic problems (2 levels)
			I know what the system life cycle is	I explain MOD/DIV I can create and store data in a
			I can explain why I need to test my program	1d array I always test my program

KS3 – Year 8	Grade 3	Grade 4	Grade 5	Grade 6	
Computer Science programming	I can write a set of instructions with some processing and a decision (selection)	I have practised writing sequences and don't need much help to make my own	I can analyse and decompose a simple problem, create an algorithm with some help	I can analyse and decompose a more complex problem, create an algorithm with some help	
Algorithms	I have made an algorithm with a decision  I can write a program (using a block/object orientated	I can work out the outcome of an algorithm using different data  I have made an algorithm	The algorithm is nearly perfect, includes variables, decisions and a loop  I can use the algorithm to create	The algorithm will be mostly accurate  I am confident in using at least one text based language  I can use a procedure in my code	
	programming language) with a decision (selection)  I can use a variable	with a loop (iteration)  I can write a program with a loop (iteration)	a program in a text based language I can explain what variables/ data types I would need	I can research and find new ways to program problems (functions)	
Programming	I can add, subtract, divide and multiply 2 digit numbers	I can explain where I need variables  I can give an example of a	I can write a program using casting/ file handling	I can create a 2 dimensional array  I can solve Boolean logic problems of more than 2 levels	
010110 001101 101010		I can solve a simple Boolean logic problem	I can explain what functions/procedures are I can solve Boolean logic	I solve a MOD/DIV problem I can use records to store data	
Computational thinking		I know what the system life cycle is	problems (2 levels) I explain MOD/DIV	I use a range of tests for my program systematically	
		I can explain why I need to test my program	I can create and store data in a 1d array I always test my program		

			Grade 5	Grade 6	Grade 7	Grade 8	Grade 9
Computer Science programming  I ha algo dec  I cal (usi orie proj lang dec  I cal divi	structions with me processing and decision (selection) ave made an gorithm with a cision an write a program sing a block/object ientated ogramming nguage) with a cision (selection) an use a variable an add, subtract, vide and multiply 2 git numbers	I have practised writing sequences and don't need much help to make my own  I can work out the outcome of an algorithm using different data I have made an algorithm with a loop (iteration) I can write a program with a loop (iteration) I can explain where I need variables I can give an example of a data type I can solve a simple Boolean logic problem I know what the system life cycle is I can explain why I need to test my program	I can analyse and decompose a simple problem, create an algorithm with some help  The algorithm is nearly perfect, includes variables, decisions and a loop  I can use the algorithm to create a program in a text based language  I can explain what variables/ data types I would need  I can write a program using casting/ file handling  I can explain what functions/procedures are  I can solve Boolean logic problems (2 levels)  I explain MOD/DIV  I can create and store data in a 1d array  I always test my program	I can analyse and decompose a more complex problem, create an algorithm with some help  The algorithm will be mostly accurate  I am confident in using at least one text based language  I can use a procedure in my code  I can research and find new ways to program problems (functions)  I can create a 2 dimensional array  I can solve Boolean logic problems of more than 2 levels  I solve a MOD/DIV problem  I can use records to store data  I use a range of tests for my program systematically	I can analyse and decompose a complex problem, create an algorithm without any help  The algorithm will be accurate  I can use more than one text based programming language  I can use a range of casting and file handling skills  I always write my programs using procedure/ suitable functions  I can write nested statements  I can explain what exponential means  I can access/ modify 1d and 2d arrays  I can use a query language/search for data	I can analyse and decompose a more complex problem and create an algorithm without any help. I can write an algorithm using a flow chart and pseudo code The algorithm will be accurate I can use a range of programming techniques in two text based languages I can write efficient code using a range of techniques I can apply MOD/DIV and exponential to solve problems I systematically resolve errors and build robust programs	I can analyse and decompose a range of complex problems and create an algorithm without any help I can use a range of programming techniques in two text based languages confidently I can write efficient code using a wide range of techniques, data structures and recursion I systematically resolve errors and build robust programs