GCSE Computing Controlled Assessment

Unit A453 Coding a solution

Unit Recording Sheet

Please read the instructions printed on the other side of this form. **One** of these Unit Recording Sheets, suitably completed, should be attached to the assessed work of **each** candidate.

Unit	**A453**		**Year**	
Centre Name	Total Mark 23/45		**Centre Number**	
Candidate Name	Victoria Hill		**Candidate Number**	

	Guidance			Teacher Comment	Mark
Use of programming techniques	There is an attempt to solve parts of the tasks using few of the techniques identified. **[0 - 2]**	There is an attempt at most parts of the tasks using several techniques. **[3 - 4]**	There is an attempt to solve all of the tasks using most of the techniques listed. **[5 - 6]**	she has attemped to solve all tasks	6 **Max 6**
Efficient use of programming techniques	The techniques used may not be entirely appropriate to the problem and will only produce partially working solutions to a small part of the problem. **[0 - 4]**	The techniques will be used appropriately giving working solutions to most of the parts of the problem. Some sections of the solution will be inefficiently coded. **[5 - 8]**	The techniques are used appropriately in all cases giving an efficient, working solution for all parts of the problem. **[9 - 12]**	The code is effecient and solves most parts of the problem	11 **Max 12**

Design	There will be vague comments on what the task involves and a vague outline describing the intended approach to some parts of the problem. There will be brief comments on how this might be tested but with no mention of success criteria. **[0 - 3]**	There will be a brief analysis of the tasks indicating what is required for each of the tasks. There will be a set of basic algorithms outlining a solution to most parts of the problem. There will be some discussion of how this will be tested and how this compares to the identified outcomes in the tasks. There will be discussion of the variables to be used and some general discussion of validation **[4 - 6]**	There will be a detailed analysis of what is required for these tasks justifying their approach to the solution. There will be a full set of detailed algorithms representing a solution to each part of the problem. There will be detailed discussion of testing and success criteria. The variables and structures will be identified together with any validation required. **[7 - 9]**	Has shown general understanding of the algorithms but cannot explain the algorithms very well	3 **Max 9**
Development	There will be some evidence to show a solution to part of the problem with some evidence to show that it works. Code will be presented with little or no annotation, the variable names not reflecting their purpose and with little organisation or structure. **[0 - 3]**	There will be evidence to show how the solutions were developed. There will be some evidence of testing during development showing that many parts of the solution work. The code will be organised with sensible variable names and with some annotation indicating what sections of the code does. **[4 – 6]**	There will be detailed evidence showing development of the solution with evidence of systematic testing during development to show that all parts work as required. The code will be well organised with meaningful variable names and detailed annotation indicating the function of each section. **[7- 9]**	No evidence of success in testing and no evidence of development.	2 **Max 9**

Testing	There will be evidence to show that the system has been tested for function but the test plan will be limited in scope with little structure. There will be little or no evidence to show how the result matches the original criteria. The evidence of written communication is limited with little or no use of specialist terms. Errors in spelling, punctuation and grammar may be intrusive. Information may be ambiguous or disorganised. There will be some comments on others' and their own input into group work. **[0 - 3]**	There will be a test plan covering many parts of the problem with some suggested test data. There will be evidence that the system has been tested using this data. There will be some evidence to show how the results of testing have been compared to the original criteria. There will be a brief discussion of how successful or otherwise the solutions are. Produces evidence of good written communication using some specialist terms. There will be few errors in spelling, grammar and punctuation. Information for the most part will be presented in a structured format. They will have commented on their own and others' contribution to any group work and **[4 - 6]**	The test plan will cover all major success criteria for the original problem with evidence to show how each of these criteria have been met, or if they have not been met, how the issue might be resolved. There will be a full evaluation of the final solution against the success criteria. A high level of written communication will be obvious throughout the task and specialist terms/technology with accurate use of spelling will have been used. Grammar and punctuation will be used correctly and information will be presented in a coherent and structured format. They will provide an evaluation on theirs and others' contribution to any group activities. **[7 - 9]**	test plan well presented but not well thought and and no evidence of being tested	3 **Max 9**
				Total/45	0

Guidance on Completion of this Form

1 **One** sheet should be used for each candidate.
2 Please ensure that the appropriate boxes at the top of the form are completed.
3 Using the guidance identify the most appropriate mark range for the work and enter the mark awarded for each element in the mark column.
4 Add appropriate comments to assist the moderator in the 'Teacher Comment' column.
5 Add the marks for the strands together to give a total out of 45. Enter this total in the relevant box.