

## Section two – project assessment

To be completed by the teacher

Analysis			
Level	Criteria	Mark	Comments/evidence
3	<p>Fully or nearly fully scoped analysis of a real problem, presented in a way that a third party can understand. Requirements fully documented in a set of measurable and appropriate specific objectives, covering all required functionality of the solution or areas of investigation. Requirements arrived at by considering, through dialogue, the needs of the intended users of the system, or recipients of the outcomes for investigative projects. Problem sufficiently well modelled to be of use in subsequent stages.</p>	7-9	<p>Very strong in all areas: <b>but nit picking</b></p> <p>Could have used a few more formal analysis techniques ... Data requirements for the various algorithms Images of example from textbook Example exam question + key marking points (or snippet from maths specification)</p> <p>HOWEVER if I was being very harsh this would only lose you 2 marks at most... It would be hard to argue against 8 marks for this section.</p>
2	<p>Well scoped analysis (but with some omissions that are not serious enough to undermine later design) of a real problem. Most, but not all, requirements documented in a set of, in the main, measurable and appropriate specific objectives that cover most of the required functionality of a solution or areas of investigation. Requirements arrived at, in the main, by considering, through dialogue, the needs of the intended users of the system, or recipients of the outcomes for investigative projects. Problem sufficiently well modelled to be of use in subsequent stages.</p>	4-6	
1	<p>Partly scoped analysis of a problem. Requirements partly documented in a set of specific objectives, not all of which are measurable or appropriate for developing a solution. The required functionality or areas of investigation are only partly addressed. Some attempt to consider, through dialogue, the needs of the intended users of the system, or recipients of the outcomes for investigative projects. Problem partly modelled and of some use in subsequent stages.</p>	1-3	
	No evidence presented	0	<b>Mark awarded:</b>



<b>Documented design</b>			
<b>Level</b>	<b>Criteria</b>	<b>Mark</b>	<b>Comments/evidence</b>
4	Fully or nearly fully articulated design for a real problem, that describes how all or almost all of the key aspects of the solution/investigation are to be structured/are structured.	10-12	Is diagram on page 25 complete? Nav diagram? Top level process?  Very strong process design. Good UI design.
3	Adequately articulated design for a real problem that describes how most of the key aspects of the solution/investigation are to be structured/are structured.	7-9	Reasonable view of the system as a whole..  Nice inclusion of data storage... although I almost missed it as it is after the prototyping
2	Partially articulated design for a real problem that describes how some aspects of the solution/investigation are to be structured/are structured.	4-6	Probably 100% for this section
1	Inadequate articulation of the design of the solution so that it is difficult to obtain a picture of how the solution/investigation is to be structured/is structured without resorting to looking directly at the programmed solution.	1-3	
	No evidence presented	0	<b>Mark awarded:</b>

<b>Technical solution – completeness</b>			
<b>Level</b>	<b>Criteria</b>	<b>Mark</b>	<b>Comments/evidence</b>
3	A system that meets almost all of the requirements of a solution/an investigation (ignoring any requirements that go beyond the demands of A-level).	11-15	15 out of 15 No question
2	A system that achieves many of the requirements but not all. The marks at the top end of the band are for systems that include some of the most important requirements.	6-10	
1	A system that tackles some aspects of the problem or investigation.	1-5	
	No evidence presented	0	<b>Mark awarded:</b>

**NOTES:**

Completeness is not only about how well a solution meets the objectives set by the student but also what an expected technical solution might perform for this particular project.

Technical solution – techniques used			
Level	Criteria	Mark	Comments/evidence
3	The techniques used are appropriate and demonstrate a level of technical skill equivalent to those listed in Group A in <b>Table 1</b> . Program(s) demonstrate(s) that the skill required for this level has been applied sufficiently to demonstrate proficiency.	19-27	Table1 group A: <ul style="list-style-type: none"> <li>• Complex OOP model</li> <li>• Complex user defined algorithm/ A-level standard domain</li> <li>• Graph operations</li> <li>• Non trivial elements of UI</li> </ul> <p>Lots of strong Group B to support...</p> <p>Fairly extensive application of the above...</p>
2	The techniques used are appropriate and demonstrate a level of technical skill equivalent to those listed in Group B in <b>Table 1</b> . Program(s) demonstrate(s) that the skill required for this level has been applied sufficiently to demonstrate proficiency.	10-18	Table 2 Coding style... (the presentation of code isn't brilliant) put the code into PastBin or notepad++ with an export plugin. And see if you can get the code as text rather than screen shots... ) not the end of the world if this is a huge hassle as It should be assessed regardless with out marking you down.
1	The techniques used demonstrate a level of technical skill equivalent to those listed in Group C in <b>Table 1</b> . Program(s) demonstrate(s) that the skill required for this level has been applied sufficiently to demonstrate proficiency.	1-9	Coding is safely "Excellent" any comments would be real nit picking.
	No evidence presented	0	The solution is effective as a demonstration tool. Would be in the top third of level 3.. maybe 27
			<b>Mark awarded:</b>

**NOTES:**

The mark to be awarded, within the level, should be decided upon using these factors:

- (1) The extent to which the criteria for the level have been achieved
- (2) The quality of the coding style that the student has demonstrated
- (3) The effectiveness of the solution.

It would be beneficial for these to also be referred to in the comments/evidence section.

Table 1 referred to is on pages 95-96 of the specification (version 1.4 December 2016)

Continue on a separate sheet if necessary

Testing			
Level	Criteria	Mark	Comments/evidence
4	Clear evidence, in the form of carefully selected representative samples, that thorough testing has been carried out. This demonstrates the robustness of the complete or nearly complete solution/thoroughness of investigation and that the requirements of the solution/investigation have been achieved.	7-8	Something that is now encouraged is a video walk-through of the system.  Use screencast-o-matic and run through the main functionality of the program... NO NEED to show all tests as you already have screenshots of validation etc.. BUT it really helps a moderator to see that it does all work as a whole.
3	Extensive testing has been carried out, but the evidence presented in the form of representative samples does not make clear that all of the core requirements of the solution/investigation have been achieved. This may be due to some key aspects not being tested or because the evidence is not always presented clearly.	5-6	Ideally upload the video to a youtube account. And include the URL in the testing sections (use a font that show the difference between 11100 11100)
2	Evidence in the form of representative samples of moderately extensive testing, but falling short of demonstrating that the requirements of the solution/investigation have been achieved and the solution is robust/investigation thorough. The evidence presented is explained.	3-4	This section is safe level 4 anyway BUT the video will allow a moderator to feel more confident when awarding the completeness and technical marks
1	A small number of tests have been carried out, which demonstrate that some parts of the solution work/some outcomes of the investigation are achieved. The evidence presented may not be entirely clear.	1-2	
	No evidence presented	0	<b>Mark awarded:</b>

Evaluation			
Level	Criteria	Mark	Comments/evidence
4	Full consideration given to how well the outcome meets all of its requirements. How the outcome could be improved if the problem was revisited is discussed and given detailed consideration. Independent feedback obtained of a useful and realistic nature, evaluated and discussed in a meaningful way.	4	All areas considered... You could possibly have been more critical... but realistically this is already safe 4 marks
3	Full or nearly full consideration given to how well the outcome meets all of its requirements. How the outcome could be improved if the problem was revisited is discussed but consideration given is limited. Independent feedback obtained of a useful and realistic nature but is not evaluated and discussed in a meaningful way, if at all.	3	
2	The outcome is discussed but not all aspects are fully addressed either by omission or because some of the requirements have not been met and those requirements not met have been ignored in the evaluation. No independent feedback obtained or if obtained is not sufficiently useful or realistic to be evaluated in a meaningful way even if attempted.	2	
1	Some of the outcomes are assessed but only in a superficial way. No independent feedback obtained or if obtained is so basic as to be not worthy of evaluation.	1	
	No evidence presented	0	

**Total mark** /75

**Concluding comments:**

**Signed:**

**Date:**