AH Physics Project Marking Grid

Skills, Knowledge and Understanding		Marks available	Marks Awarded	Comments
1. Abstract	Aim & Findings	1 mark		
2. Introduction	Underlying Physics	4 marks		
3. Procedures	a. Labelled diagrams and / or descriptions	2 marks		
	b. Description of how apparatus used.	2 marks		
	c. Level of demand of procedures	3 marks		
4. Results	a. data	1 mark		
	b. Analysis of data	4 marks		
	c. Uncertainties	3 marks		
5. Discussion	a. Conclusion	1 mark		
	b. Evaluation of procedures	3 marks		
	c. Evaluation of Project as a whole	3 marks		
	d. Quality Project	1 mark		
6. Presentation	a. Structure	1 mark		
	b. References	1 mark		
Total		**30 marks**		

Assessment category and criteria	Marks	
Abstract ♦ a brief abstract (summary) stating the overall aim(s) and finding(s)/conclusion(s) of the investigation	**1**	
Introduction ♦ relevant to the investigation ♦ demonstrating an understanding of the physics theory underpinning the investigation ♦ of an appropriate level (ie commensurate with the demands of Advanced Higher Physics)	**4**	
Procedures ♦ labelled diagrams and/or descriptions of apparatus, as appropriate ♦ clear descriptions of how the apparatus was used to obtain experimental readings ♦ procedures are at an appropriate level for Advanced Higher complexity, ie appropriate level of demand; factors to be considered include: — range of procedures — control of variables — accuracy — originality of approach and/or experimental techniques; — degree of sophistication of experimental design and/or equipment	**2** **2** **3**	
Results (including uncertainties) ♦ data sufficient and relevant to the aim(s) of the investigation ♦ appropriate analysis of data, eg quality graphs, lines of best fit, calculations ♦ uncertainties in individual and final results	**1** **4** **3**	
Discussion (conclusion(s) and evaluation) ♦ conclusion(s) is/are valid and relate to the aim(s) of the investigation ♦ evaluation of experimental procedures to include, as appropriate, comment on: — accuracy of experimental measurements — adequacy of repeated readings — adequacy of range over which variables are altered — adequacy of control of variables — limitations of equipment — reliability of methods — sources of errors and uncertainties ♦ coherent discussion of overall conclusion(s) and critical evaluation of the investigation **as a whole** to include, as appropriate, comment on: — problems overcome — modifications to procedures — significance/interpretation of findings — suggestions for further improvements to procedures — suggestions for further work ♦ overall quality of the investigation	**1** **3** **3** **1**	
Presentation ♦ appropriate structure, including informative title, contents page and page numbers ♦ references cited in the text and references listed in standard form, acknowledgements, where appropriate	**1** **1**	
Total marks	**30**	