

Criterion:	0	1	2	3	4	5	6	7	8	9	10	Mark /10 for this criterion	Participant number 254887
Calculation of the parameters for the unweighted fit: Gradient, intercept, and uncertainties (weighted at 5%)	Not calculated				Major error in calculation that should have been spotted and corrected. Values calculated are clearly wrong		Values calculated are incorrect, but nonetheless may have been considered to be feasible.				Correctly calculated using the equations already seen in session 5, results output at full precision	8	Good - correctly calculated. Remember equations of lines may also require units.
Calculation of the parameters for the weighted fit: Gradient, intercept, and uncertainties (weighted at 20%)	Not calculated				Major error in calculation that should have been spotted and corrected. Values calculated are clearly wrong		Values calculated are incorrect, but nonetheless may have been considered to be feasible.				Correctly calculated using the equations from the script, results output at full precision	8	as above
Value of e/m for the unweighted fit (weighted at 10%)	Not calculated			Mistake in the calculation of e/m, calculated value clearly wrong, or wrong with no error propagation	Value of e/m correctly calculated, but no attempt to propagate errors.	Mistake in the calculation of e/m, nonetheless the value calculated may have been considered to be feasible, and errors propagated	Value of e/m correctly calculated, but errors incorrectly propagated				Correctly calculated from the unweighted fit parameters, together with fully propagated error calculations	8	Correctly calculated but should also be output to full precision.
Value of e/m for the weighted fit (weighted at 10%)	Not calculated			Mistake in the calculation of e/m, calculated value clearly wrong, or wrong with no error propagation	Value of e/m correctly calculated, but no attempt to propagate errors.	Mistake in the calculation of e/m, nonetheless the value calculated may have been considered to be feasible, and errors propagated	Value of e/m correctly calculated, but errors incorrectly propagated				Correctly calculated from the weighted fit parameters, together with fully propagated error calculations	8	as above
Precision (weighted at 5%)	No attempt to address precision.				Little effort to address appropriate precision		Some values do not have appropriate precision.				Calculated quantities are shown to full precision during workings, but final results given with errors to 1sf and value to same precision.	6	see above
Units (weighted at 2%)	No units present				Most units missing or wrong		Some units missing or wrong				Units are present and correct throughout in outputs and text cells, and in code comments where appropriate.	6	Note that your equations for the lines should have units.
Plots (weighted at 8%)	No plot produced by the submitted code.			Inadequate plots - for example, missing axis labels or titles.		Most but not all requirements of the plots met - for example, incomplete legend, or errors in the axis labels/title		All plot requirements met: everything is clearly plotted and correctly and appropriately labelled.			Exemplary plotting throughout, aesthetically perfect, publication quality.	5	Fantastic that you considered colour-blindness. Include your error bar on the data point in your legend. Title is ok and axis labels are good.
Code style (weighted at 10%)	Code would require significant correction before it can be run.				Code has errors (requiring the marker to correct it before it can be run) - for example an undefined variable or code cells wrongly ordered.		The code runs with no errors, but is somewhat inefficient or poorly structured, or has a poor choice of variable names		Code is clear, follows best practice guidelines, with a good effort made to ensure appropriate variable names and efficiency of calculation. Runs without errors or warnings.		Code is exceptionally clear, efficient, well-structured and follows best practice throughout.	8	Good code which works well.
Code commenting (weighted at 10%)	No comments are included			Code is massively undercommented.		Code is undercommented, or comments are not useful, or so unnecessarily verbose that readability is affected.	Code is commented where needed. Complicated parts of code have a higher level of commenting than simpler parts, however comments are overly verbose.		Code is clearly and concisely commented where needed. Complicated parts of code have a higher level of commenting than simpler parts.		Exceptional level of commenting throughout the code. Clear, concise and readable throughout.	7	Referring to equations makes it easier to see what is going on.
Text cells and discussion (weighted at 10%)	Text cells have not been included			Not enough text cells included to create a self-contained document, or poor quality, for example grammatical/linguistic errors severely affecting the readability of the commentary.			Acceptable commentary, but needs expansion in places. For example, missing explanation of how the equations were rearranged to determine what quantity the gradient represents.		Good commentary resulting in a clear, self-contained document. Text cells consist of complete, well-structured and grammatical paragraphs. It is clear what the student is calculating, how they are going about it, and why they are doing it. A clear understanding of the physics of the problem is demonstrated.		Exceptional quality of the text commentary, resulting in an exemplary, self-contained document. Results are fully discussed throughout, showing an excellent understanding of the physics.	6	Re-read text cells - your first one about the experiment claims the electron beam travelled a circular path before the magnetic field was even applied! I assume this was an error! Do explain all the terms in your equations.
Conclusions (weighted at 10%)	No attempt at conclusions			An attempt at a conclusions section has been made, but is inadequately detailed or draws obviously incorrect conclusions.			Acceptable conclusions. Eg: The results and their implications are discussed, but the conclusions drawn are not necessarily fully valid; or room for deeper discussion.		Good conclusions section. The results are fully discussed and their implications clearly understood		An exemplary conclusions section is presented, with exceptional insight shown.	4	Not sure you made the right conclusion - perhaps discussing it further might have helped. Why do we use a weighted fit?
TOTAL (/100):												69.20	