

## Laboratory Report Feedback– summary of key positive and negative points

Student \_\_\_\_\_

Marker \_\_\_\_\_

Positives	Negatives
<b>Introduction:</b>  <input type="checkbox"/> Covered all/most of the main points very well  <input type="checkbox"/> Covered some of the main points, but there were some deficiencies.     <input type="checkbox"/> Appropriate length	<input type="checkbox"/> Was not sufficiently focussed  Insufficient or absent discussion of: <input type="checkbox"/> what you were trying to do in sufficient detail <input type="checkbox"/> how it was to be done <input type="checkbox"/> why you were trying to do it: i.e. what you were trying to learn <input type="checkbox"/> why the measurement was important or relevant (i.e. the context)  <input type="checkbox"/> Too brief   or <input type="checkbox"/> too long
<b>Theory/Experimental</b>  <input type="checkbox"/> Outline of key equations  <input type="checkbox"/> Outline of key analysis methods (numerical/graphical)  <input type="checkbox"/> Showed some evidence of research – i.e. discussion (e.g. of underlying physics, assumptions etc) beyond the content of the lab script.  <input type="checkbox"/> Description of experimental technique so a non-expert would know what you had done.  <input type="checkbox"/> Description in appropriate detail  <input type="checkbox"/> Description of sources of random and systematic error  <input type="checkbox"/> Description of how errors were minimised and evaluated	<input type="checkbox"/> Insufficient or absent outline of key equations  <input type="checkbox"/> Insufficient or absent outline of key analysis methods  <input type="checkbox"/> Nothing really beyond what was in the script – not much evidence of own research/thinking  <input type="checkbox"/> Description a little unfocussed or potentially unclear to a non specialist  <input type="checkbox"/> Too much unnecessary detail provided  <input type="checkbox"/> Not enough detail provided  <input type="checkbox"/> Insufficient description of sources of random or systematic errors  <input type="checkbox"/> Insufficient description of how errors were evaluated or minimised.  <input type="checkbox"/> Inappropriate use of “I” or “we” (for example) in description  <input type="checkbox"/> Method written in a style of a recipe or set of instructions. It is a report on what was done – use the past tense
<b>Results/Discussion/Conclusion</b>  <input type="checkbox"/> Results look correct/consistent with what we expect	<input type="checkbox"/> Some flaws in the analysis/incorrect results

<ul style="list-style-type: none"> <li><input type="checkbox"/> Errors appear to have been calculated properly</li> <li><input type="checkbox"/> Results presented appropriately in tables (if applicable)</li> <li><input type="checkbox"/> Good graphical representation of data/results (if applicable)</li> <li><input type="checkbox"/> Errors quoted on all quantities as appropriate</li> <li><input type="checkbox"/> Illustration of method of combination of errors</li> <li><input type="checkbox"/> Comparison of result with expected value/result</li> <li><input type="checkbox"/> Discussion of merit of the technique/ways of improvement</li> <li><input type="checkbox"/> Appropriate conclusion drawn – taking into account size of errors</li> <li><input type="checkbox"/> Insight/originality shown in discussion of key results and their relevance</li> <li><input type="checkbox"/> Summary of key points/results provided in conclusion</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Error calculation looks flawed</li> </ul> <p>Errors seem <input type="checkbox"/> too big or <input type="checkbox"/> too small</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Not all the necessary/relevant data presented</li> <li><input type="checkbox"/> Graphs or tables incomplete or missing</li> <li><input type="checkbox"/> Errors missing on one or more key quantities</li> <li><input type="checkbox"/> No illustration of how errors were combined.</li> <li><input type="checkbox"/> No discussion of (or comparison with) expected result</li> <li><input type="checkbox"/> No discussion of the merit of the technique</li> </ul> <p>Conclusion drawn inconsistent with data:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Generally, the data does not support the conclusion</li> <li><input type="checkbox"/> The error bars are too large for the conclusion drawn to be valid.</li> <li><input type="checkbox"/> Little insight/originality shown in discussion</li> <li><input type="checkbox"/> Summary of key points not in conclusion</li> </ul>
<p><b>Presentation</b></p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Text not always in “report” style – i.e. needs to be in past tense and no use of “I” or “We”.</li> <li><input type="checkbox"/> Style of writing not always appropriate (e.g. too “ornate” with perhaps too much padding:, not sufficiently scientific/formal)</li> <li><input type="checkbox"/> Some key equations not numbered</li> <li><input type="checkbox"/> Not all figures adequately titled, captioned numbered</li> <li><input type="checkbox"/> Not all tables/graphs adequately titled, captioned numbered</li> <li><input type="checkbox"/> Numbered equations, figures, graphs or tables not always referred to in the text.</li> <li><input type="checkbox"/> One or more figures/graphs too small.</li> <li><input type="checkbox"/> Reference style needs attention</li> </ul>