

Goals:

- Evaluates weaknesses and limitations.
 - Evaluation of Results -
 - Were the measurements accurate (close to the true values) and precise (close to each other)?
 - Is your conclusion (claim) reasonable or not, based on your evidence?
 - Each comment needs to be supported with evidence from your data.
 - Limitations of Procedure -
 - Focus on Design of experiment
 - Control Variables: What variables did you not control or forgot to control?
 - # of Trials:
 - Did you collect enough trials to eliminate possible outliers?
 - Range of data:
 - Did you collect data over the entire range of possibilities that your equipment allowed for?
 - Did you collect too much of a range? Beyond the limitations of your equipment. Did you max out your sensors/measuring device?
- Improving the Experiment:
 - From the list of Limitations above, suggest reasonable improvements to the design of the experiment to increase the reliability of your evidence.
 - Utilize a table as shown:

Limitation of Design	How that error affected the data collected.	Suggestion(s) for Improvement
i.e. - Range of data collected was too narrow, <i>the density range was 12% to 18%.</i>	Data points failed to provide a clear trend.	Collect additional data at a wider range of densities.
Did not collect data for pure water, <i>0% density.</i>	Does not provide a baseline for data.	Collecting data for pure water, allows for a baseline data point. (Does trendline pass through water data point?)
Limitation, <i>evidence of limitation.</i> For each limitation you should include an additional row to the table.		

- Note: do not say “Measurements could have been more accurate...” or “there was error in measurement.” Or “we could have worked harder/paid more attention.” Those are not valid evaluation statements and you are just wasting paper.
- Are there further experiments that can be performed or did the data suggest other avenues to explore?