

LEGEND TO PROBLEMS FLAGGED IN YOUR LAB REPORT

Note: All flagged problems reduce the score for the lab report. The most serious problems are indicated as such.

<u>Error symbol</u>	<u>Error Type</u>
ERROR	<u>Uncertainty (error) for this measurement result</u> is missing or incorrect. Serious problem.
SDOM	Uncertainty (error) on mean $\langle x \rangle$ is not calculated using the <u>Std. Dev. Of the Mean</u> . Serious problem.
	$\sigma_{\langle x \rangle} = \frac{\sigma_x}{\sqrt{N}} = \frac{\sqrt{\frac{\sum_{i=1}^N (x_i - \langle x \rangle)^2}{N-1}}}{\sqrt{N}}$
PROP	Uncertainties on quantities that are not directly measured, but that are derived from measured values, are <u>not or not properly propagated</u> . Serious problem.
ERR VS. DEV	The meaning of the <u>uncertainty in a measurement is confused with the discrepancy</u> between measured and accepted value. Serious problem.
SIGMA	The discrepancy is <u>not properly evaluated in terms of the error</u> ("1 σ deviation", "2 σ deviation",...) and commented on. Serious problem.
SIG FIG	More decimals than the <u>significant figures</u> are listed. Serious problem.
UNITS	Quantities are given <u>without units or units are incorrect</u> . Serious problem.
CAPTION	Caption for table, figure, or graph <u>is missing</u> .
NUM	Table, figure, or graph <u>is not properly numbered</u> .
NUMREF	The main <u>text does not refer to the correct</u> table, figure, or graph.
FORMAT	<u>Equations are not properly formatted</u> in display mode.
JUSTIFY	The main body of the <u>text is not "justified"</u> ; i.e. it does not fill the lines of a paragraph evenly and is not flush with the right and left margin

OVER →

LABELS	The <u>plot axes are not labeled</u> or there are <u>no or improper units</u> shown on the axes for the plotted quantities. Serious problem.
EBAR	There are <u>no or incorrect error bars</u> shown for the quantities in your graph. Serious problem.
EBAR X	There are <u>no or incorrect error bars</u> shown for the quantities given on the <u>x-axis</u> in your graph. Serious problem.
EBAR Y	There are <u>no or incorrect error bars</u> shown for the quantities given on the <u>y-axis</u> in your graph. Serious problem.
RANGE	The <u>range of the plotted quantity is not suitable</u> . There is too much open space in a plot where there are no data points.
NO ABS	The <u>abstract is missing</u> .
ABS CONT	The abstract <u>does not properly reflect the contents</u> of your report.
ABS VERBOSE	The abstract is <u>too verbose</u> . It should only address: What was measured ? How was it measured ? What is the final result ?
ABS RESULT	The <u>final result</u> of your measurement is not quoted in the abstract.
ORG	<u>Organizational problem</u> . What is covered in this section or paragraph had <u>better be placed in another section</u> of the report as indicated.
PLACE	A section or subsection (e.g. "Data") <u>starts with a table or plot</u> . Tables and figures should have been <u>placed either at the top or bottom of a page</u> .
DANGLE	The heading of a new section or just one or two lines of a new section are <u>dangling by themselves at the bottom of a page</u> . Should have started a new page.
SP	<u>Spelling</u> error.
GRAM	<u>Grammatical</u> error.
STYLE	<u>Bad writing</u> style.
ENG	This is <u>not a proper English sentence</u> .
PROOF	It appears that the report <u>was not proofread sufficiently</u> because of many language and style problems.