

Peer Review Worksheet

Report author: _____

Experiment: 1 2 3 4 5 6 7 8

1. Skim the report to get the gist of what it is about.

In one paragraph, what did the authors do, what did they find?

2. Read the report in detail. Make notes on the report itself with your ideas, thoughts, as well as specific comments regarding the criteria on the following page.

3. Skim report examining structure and format making specific suggestions to improve organization, figure or table quality, and correcting spelling, grammar, etc.

4. Supported conclusions?- What were the overall conclusions? Are these clearly supported by the data presented?

5. Is it ready for publication?

Briefly address the overall quality of the writing, formatting, organization, and figure quality.

6. Score the following categories with a numeric value between 1 (poor) and 5 (fabulous).
Check marks are adequate for category criteria that are present.

___ The abstract is a short paragraph and contains all pertinent components:

- ___ Length of about 250 words
- ___ Background/ importance
- ___ Purpose
- ___ Methods
- ___ Results
- ___ Interpretations/ implications/ conclusions

___ The Introduction contains:

- ___ Contains adequate and appropriate background information
- ___ Suggests one or more reasonable outcomes of the experiment
- ___ Suggests one or more methods that may be used to address question
- ___ Poses a clear science question
- ___ The science question clearly follows from introductory materials

___ The Instrument section:

- ___ Contains an instrument diagram(s)
- ___ Explains how the instrument works in a detailed yet concise way

___ The Methods contain all pertinent information needed to replicate the experiment.

- ___ Sample preparation
- ___ Calibration
- ___ Instrument parameters
- ___ Methods are organized in a logical flow consistent with Results section

___ The Results

- ___ Only results are presented, no interpretation
- ___ Results are presented in the same order as the Methods section
- ___ Figures and Tables are numbered according to the order they appear in the text

___ Figures and Tables are neatly and carefully constructed

- ___ Raw data not shown
- ___ All needed results are present and all results presented are needed
- ___ Estimates of error/ error bars are provided as needed

___ The Discussion

- ___ Interpretations follow directly from the results
- ___ Unusual or unexpected results are given reasonable explanations
- ___ Likely sources of error are identified and explained in professional terms

___ The Conclusion

- ___ Briefly states the conclusions of the experiment
- ___ Circles back to the ideas/hypothesis presented in the introduction
- ___ If results were not conclusive, potential fixes are proposed

Overall Quality

- ___ Spelling and grammar errors do not distract from the meaning of the text
- ___ Coherence of thought/ writing flows in a logical way
- ___ References in text and in bibliography are complete and formatted consistently
- ___ Passive voice is used, no or few I's
- ___ A professional tone is maintained throughout

CHEM 314W: Analytical Instrumental Laboratory Peer Review Author:

7. **Positive feedback-** What aspects of the report facilitated effective communication of the data? You **MUST** say something nice, truthful, and thoughtful! This can include the way data is plotted in a figure, the way something is described, etc.

8. **Constructive feedback-** (2-3 sentences) How can the authors revise the report to make it more efficient and effective at communicating their points? These suggestions can be general or specific. But, if you say something needs improvement, you must suggest a way to fix it.

9. **Recommendation: Accept Minor Revisions Major Revisions Reject**
Briefly justify your recommendation: