**Assessment rubric – Write up of project**

Score each as 2 (complete), 1 (Partial), 0 (Not at all).

*Introducing, defining and justifying the research question.*

Complete: Formulates a focused research question, justifies its importance, and sets it in a broader context.

Partial: Formulates an incomplete or unfocused research question, or lacks justification, or lacks context.

Not at all: Does not identify a question, presents no justification, and no context.

*Hypotheses and predictions*

Complete: Presents null and working hypotheses that directly address the research question, and makes predictions that can differentiate between the hypotheses.

Partial: Presents somewhat relevant hypotheses, or makes predictions that somewhat address the research question.

Not at all: Does not present relevant hypotheses and does not present relevant predictions

*Methods and material*

Complete: Experimental design and data collected are clearly (via graphs and statistical tests) able to test among hypotheses.

Partial: Experimental design and data collected may not be sufficient to test among hypotheses.

Not at all: Experimental design and data collected will not be sufficient to test among hypotheses.

*Results*

Complete: Data is clearly presented in a manner that is directly relevant to the research question, hypotheses and prediction.

Partial: Data is clearly presented or is presented in a manner somewhat relevant to the research question, hypotheses and prediction.

Not at all: Data is unclearly presented in a manner that is irrelevant.

*Statistical Analyses*

Complete: Appropriate and justified statistical analyses are performed (i.e., assumptions met), and the analyses differentiate between the hypotheses.

Partial: Statistical analyses are inappropriate or not able differentiate between the hypotheses.

Not at all: : Statistical analyses are inappropriate and are unable differentiate between the hypotheses.

*Conclusion(s)*

Complete: Conclusions directly address the research question and are justified by the results and analyses.

Partial: Conclusions somewhat address the research question or are somewhat justified by the results and analyses.

Not at all: Conclusions do not address research question and are not justified by the results and analyses.

*Comparison with published work*

Complete: Relevant work discussed.

Partial: Important relevant work missing or irrelevant work discussed.

Not at all: Important relevant work missing and irrelevant work discussed.

*Critique*

Complete: Sources of uncertainty, opportunities for improvement, and suggested further research are all presented and relevant.

Partial: Sources of uncertainty, opportunities for improvement, or suggested further research are all presented, some may be irrrelevant.

Not at all: No consideration of relevant sources of uncertainty, opportunities for improvement, or future research.

*Presentation*

Complete: All elements of a scientific report are included, with high attention to detail.

Partial: All elements of a scientific report are included or there is high attention to detail.

Not al all: Elements of a scientific report missing, and lack of attention to detail.