

Name: _____

 Teacher: Mr. Smith

Date: _____

Lab Title: _____

Topic/Option: _____

 Lab Prompt/Handout Attached

 Raw Data Attached

| Criterion | | Complete (2) | Partial (1) | Not At All (0) | Level |
|--------------------------------|---|---|---|--|---|
| Design | Aspect 1 Defining the Problem and Selecting Variables | Formulates a focused problem / research question and identifies the relevant variables | Formulates a problem / research question that is incomplete or identifies only some relevant variables | Does not identify a problem / research question and does not identify any relevant variables | Complete 2 Partial 1 Not At All 0 Not Eval X |
| | Aspect 2 Controlling Variables | Designs a method for the effective control of the variables | Designs a method that makes some attempt to control the variables | Designs a method that does not control the variables | Complete 2 Partial 1 Not At All 0 Not Eval X |
| | Aspect 3 Developing a Method for Collecting Data | Develops a method that allows for the collection of sufficient relevant data. | Develops a method that allows for the collection of insufficient relevant data. | Develops a method that does not allow for any relevant data to be collected. | Complete 2 Partial 1 Not At All 0 Not Eval X |
| Data Collection and Processing | Aspect 1 Recording Raw Data | Records appropriate quantitative and associated qualitative raw data, including units and uncertainties where relevant. | Records appropriate quantitative and associated qualitative raw data, but with some mistakes or omissions. | Does not record any appropriate quantitative raw data or raw data is incomprehensible. | Complete 2 Partial 1 Not At All 0 Not Eval X |
| | Aspect 2 Processing Raw Data | Processes the quantitative raw data correctly. | Processes the quantitative raw data correctly, but with some mistakes and/or omissions. | No processing of quantitative raw data is carried out or major mistakes are made in processing. | Complete 2 Partial 1 Not At All 0 Not Eval X |
| | Aspect 3 Presenting Raw Data | Presents processed data appropriately and, where relevant, includes errors and uncertainties. | Presents processed data appropriately, but with some mistakes and/or omissions. | Presents processed data inappropriately or incomprehensibly. | Complete 2 Partial 1 Not At All 0 Not Eval X |
| Conclusion and Evaluation | Aspect 1 Concluding | States a conclusion, with justification, based on a reasonable interpretation of the data. | States a conclusion based on a reasonable interpretation of the data. | States no conclusion or the conclusion is based on an unreasonable interpretation of the data. | Complete 2 Partial 1 Not At All 0 Not Eval X |
| | Aspect 2 Evaluating Procedure(s) | Evaluates weaknesses and limitations. | Identifies some weaknesses and limitations, but the evaluation is weak or missing. | Identifies irrelevant weaknesses and limitations | Complete 2 Partial 1 Not At All 0 Not Eval X |
| | Aspect 3 Improving the investigation | Suggests realistic improvements in respect of identified weaknesses and limitations. | Suggests only superficial improvements. | Suggests unrealistic improvements. | Complete 2 Partial 1 Not At All 0 Not Eval X |