

Internal Assessment for IB

Student _____

| DESIGN | Aspects | | | D: |
|----------------|---|--|---|----|
| | 1. Defining the Problem and Selecting Variables | 2. Controlling Variables | 3. Developing a Method for Collecting Data | |
| Complete (2) | Formulates a focused problem/research question and identifies the relevant variables. | Designs a method for the effective control of the variables. | Develops a method that allows for the collection of sufficient relevant data. | |
| Partial (1) | Formulates a problem/research question that is incomplete or identifies only some relevant variables. | Designs a method that makes some attempt to control the variables. | Develops a method that allows for the collection of insufficient relevant data. | |
| Not at All (0) | Does not identify a problem/research question and does not identify any relevant variables. | Designs a method that does not control the variables. | Develops a method that does not allow for any relevant data to be collected. | |
| mark | | | | |

| DATA COLLECTION AND PROCESSING | Aspects | | | DPP: |
|--------------------------------|---|---|---|------|
| | 1. Recording Raw Data | 2. Processing Raw Data | 3. Presenting Raw Data | |
| Complete (2) | Records appropriate quantitative and associated qualitative raw data, including units and uncertainties where relevant. | Processes the quantitative raw data correctly. | Presents processed data appropriately and, where relevant, includes errors and uncertainties. | |
| Partial (1) | Records appropriate quantitative and associated qualitative raw data, but with some mistakes or omissions. | Processes quantitative raw data, but with some mistakes and/or omissions. | Presents processed data appropriately, but with some mistakes and/or omissions. | |
| Not at All (0) | Does not record any appropriate quantitative raw data or raw data is incomprehensible | No processing of quantitative raw data is carried out or major mistakes are made in processing. | Presents processed data inappropriately or incomprehensibly. | |
| mark | | | | |

| CONCLUSION AND EVALUATION | Aspects | | | CE: |
|---------------------------|--|--|--|-----|
| | 1. Concluding | 2. Evaluating Procedure(s) | 3. Improving the Investigation | |
| Complete (2) | States a conclusion, with justification, based on a reasonable interpretation of the data. | Evaluates weaknesses and limitations. | Suggests realistic improvements in respect of identified weaknesses and limitations. | |
| Partial (1) | States a conclusion based on a reasonable interpretation of the data. | Identifies some weaknesses and limitations, but the evaluation is weak or missing. | Suggests only superficial improvements. | |
| Not at All (0) | States no conclusion or the conclusion is based on an unreasonable interpretation of the data. | Identifies irrelevant weaknesses and limitations. | Suggests unrealistic improvements. | |
| mark | | | | |

Data Book Rubric Marking Form

Name of Student: _____ Name of Teacher: _____ Date: _____

Lab Title: _____ Topic(s)/Option: _____ Hours: _____

| Criterion | Aspects | | | Level | |
|-------------------------------|--|--|--|---|-----|
| Introduction | Gives Enough Background Material to properly understand the topic being covered and why C P N | A clear research question and/or purpose is stated. The purpose clearly relates to the background information. C P N | A clear simple description of the lab is given. C P N | ccc 6 ccp 5, ccn, 4 cpp, 4 ppp 3 cpn 3, cnn 2, ppn, 2 pnn 1, nnn, 0 | N/A |
| Hypotheses/ Research Question | The hypothesis is clearly linked to the research question/purpose C P N | The proper variable is selected and guides the experiment C P N | The hypotheses cover the work completed in lab C P N | ccc 6 ccp 5, ccn, 4 cpp, 4 ppp 3 cpn 3, cnn 2, ppn, 2 pnn 1, nnn, 0 | N/A |
| Procedures | The procedures could be followed. They contain, units, concentrations, and names of all materials needed as the procedures are read. They could completely stand alone. C P N | | The procedures are easy to read and are organized in a manner that leads to their usefulness. They cover all aspects of the experiment C P N | cc 3 cp 2 cn, pp 1 pn, nn 0 | N/A |
| Results | The Results are recorded in an organized fashion. All tables are properly labeled and format contains units. C P N | Written Narrative of results is given and cover all aspects of the lab. All tables and figures are referred to by number and summarized for content in both the narrative and captions. C P N | When possible data is processed in a manner that manipulates the data for further meaning. eg; averages, t-tests, chi-square, correlations, etc... and presented in a manner the helps in the understanding (Graphs etc...) C P N | ccc 6 ccp 5, ccn, 4 cpp, 4 ppp 3 cpn 3, cnn 2, ppn, 2 pnn 1, nnn, 0 | N/A |
| Conclusion and Evaluation | Gives a valid conclusion, based on the correct interpretation of the results with an explanation and where appropriate compares results with literature values C P N | Evaluates procedures and results including limitations, weaknesses and or errors. C P N | Identifies weaknesses and states a realistic suggestion to improve the investigation based on the identified weaknesses. C P N | ccc 6 ccp 5, ccn, 4 cpp, 4 ppp 3 cpn 3, cnn 2, ppn, 2 pnn 1, nnn, 0 | N/A |
| References | All References are given in their proper citation format C P N | Lab Partners are cited with their contribution noted C P N | More than just handout and partner is cited. Effort has been made to expand and look for literature values etc... C P N | ccc 3 ccp, ccn, cpp, 2 ppp, cpn, cnn, ppn, 1 pnn, nnn, 0 | N/A |

C = aspect completely fulfilled

p = aspect partially fulfilled
Not assessed

n = not at all fulfilled

N/A =