# Internal Assessment Rubric

## Design

| Levels/marks | Aspect 1 | Aspect 2 | Aspect 3 |
|---|---|---|---|
| | Defining the problem and selecting variables | Controlling variables | Developing a method for collection of 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. |

## Data collection and processing

| Levels/marks | Aspect 1 | Aspect 2 | Aspect 3 |
|---|---|---|---|
| | Recording raw data | Processing raw data | Presenting processed 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. |

# Conclusion and evaluation

| Levels/marks | Aspect 1 | Aspect 2 | Aspect 3 |
|---|---|---|---|
| | Concluding | Evaluating procedure(s) | 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. |

# Manipulative skills (assessed summatively)

| Levels/marks | Aspect 1 | Aspect 2 | Aspect 3 |
|---|---|---|---|
| | Following instructions* | Carrying out techniques | Working safely |
| **Complete/2** | Follows instructions accurately, adapting to new circumstances (seeking assistance when required). | Competent and methodical in the use of a range of techniques and equipment. | Pays attention to safety issues. |
| **Partial/1** | Follows instructions but requires assistance. | Usually competent and methodical in the use of a range of techniques and equipment. | Usually pays attention to safety issues. |
| **Not at all/0** | Rarely follows instructions or requires constant supervision. | Rarely competent and methodical in the use of a range of techniques and equipment. | Rarely pays attention to safety issues. |

## Personal skills (for group 4 project assessment only)

| Levels/marks | Aspect 1 | Aspect 2 | Aspect 3 |
| --- | --- | --- | --- |
| | Self-motivation and perseverance | Working within a team | Self-reflection |
| **Complete/2** | Approaches the project with self-motivation and follows it through to completion. | Collaborates and communicates in a group situation and integrates the views of others. | Shows a thorough awareness of their own strengths and weaknesses and gives thoughtful consideration to their learning experience. |
| **Partial/1** | Completes the project but sometimes lacks self-motivation. | Exchanges some views but requires guidance to collaborate with others. | Shows limited awareness of their own strengths and weaknesses and gives some consideration to their learning experience. |
| **Not at all/0** | Lacks perseverance and motivation. | Makes little or no attempt to collaborate in a group situation. | Shows no awareness of their own strengths and weaknesses and gives no consideration to their learning experience. |