

Scoring Guide

Planning (a)

Level	Defining the problem or research question.	Formulating a hypothesis or prediction.	Selecting Variables
Mastery	Identifies a focused problem or research question.	Relates the hypothesis or prediction directly to the research question and explains it,	Selects the relevant independent and controlled variables
Non-Mastery	States the problem or research question, but it is unclear or incomplete.	States the hypothesis or prediction but does not explain it.	Selects some relevant variables.
Incomplete	Does not state the problem or research question or repeats the general aim provided by the instructor	Does not state a hypothesis or prediction	Does not select any relevant variables

Planning (b)

	Selecting appropriate apparatus or materials.	Designing a method for the control of variables	Data collection
Mastery	Selects appropriate apparatus or materials	Describes a method that allows for the control of the variables	Describes a method that allows for the collection of sufficient relevant data.
Non-Mastery	Selects some appropriate apparatus or materials	Describes a method that makes some attempt to control the variables.	Describes a method that allows for the collection of insufficient relevant data.
Incomplete	Does not select any apparatus or materials	Describes a method that does not allow for the control of the variables	Describes a method that does not allow any relevant data to be collected

Conclusion and Evaluation

	Drawing conclusions	Evaluating procedures and results	Improving the investigation
Mastery	Gives a valid conclusion based on the correct interpretation of the results, with an explanation.	Evaluates procedures and results including limitations, weaknesses or errors	Identifies weaknesses and states realistic suggestions to improve the investigation
Non-Mastery	States a conclusion that has some validity	Evaluates procedures and results but misses some obvious limitations or errors	Suggests only simplistic improvements
Incomplete	Draws a conclusions that misinterprets the results	The evaluation is superficial or irrelevant	Suggest unrealistic improvements