

IB Science Internal Assessment Report Rubric

Criteria 1: Personal Engagement Mark /2			
Descriptors			Level
The student's report does not reach a standard described by the descriptors below.			0
The evidence of personal engagement with the exploration is... ...independent thinking, initiative or creativity.	...limited with little...	1	
	...clear with significant...	2	
The justification given for choosing the research question and/or the topic under investigation... ...personal significance, interest or curiosity.	...does not demonstrate...	1	
	...demonstrates...	2	
There is... ...of personal input and initiative in the designing, implementation or presentation of the investigation.	...little evidence...	1	
	...evidence...	2	

Criteria 2: Exploration Mark /6			
Descriptors			Level
The student's report does not reach a standard described by the descriptors below.			0
Topic of investigation is identified and a research question that isof some relevance is stated but it is not focused.	1-2	
	...relevant but not fully focused is described.	3-4	
	...relevant and fully focused is clearly described.	5-6	
The background information provided for the investigation... ...the understanding of the context of the investigation.	...is superficial or of limited relevance and does not aid...	1-2	
	...is mainly appropriate and relevant and aids...	3-4	
	...is entirely appropriate and relevant and enhances...	5-6	
The methodology of the investigation is appropriate to address the research question... ...the significant factors that may influence the relevance, reliability and sufficiency of the collected data.	...only to a very limited extent since it takes into consideration few of...	1-2	
	...mainly, but has limitations since it takes into consideration only some of...	3-4	
	...highly, because it takes into consideration all, or nearly all, of...	5-6	
The report shows evidence of... ...awareness of the significant safety, ethical or environmental issues that are relevant to the methodology of the investigation.	...limited...	1-2	
	...some...	3-4	
	...full...	5-6	

Criteria 3: Analysis Mark /6			
Descriptors			Level
The student's report does not reach a standard described by the descriptors below.			0
The report includes... ...conclusion to the research question.	... insufficient relevant raw data to support a valid...	1-2	
	...relevant but incomplete quantitative and qualitative raw data that could support a simple or partially valid...	3-4	
	...sufficient relevant quantitative and qualitative raw data that could support a detailed and valid...	5-6	
Appropriate and sufficient data processing is carried out...	Some basic data processing is carried out but is either too inaccurate or too insufficient to lead to a valid conclusion.	1-2	
	... that could lead to a broadly valid conclusion but there are significant inaccuracies and inconsistencies in the processing.	3-4	
	...with the accuracy required to enable a conclusion to the RQ to be drawn that is fully consistent with the experimental data.	5-6	
The report shows evidence of... ...consideration of the impact of measurement uncertainty on the analysis.	...little...	1-2	
	...some...	3-4	
	...full and appropriate...	5-6	
The processed data... ...to the research question can be deduced.	...is incorrectly or insufficiently interpreted so that the conclusion is invalid or very incomplete.	1-2	
	...is interpreted so that a broadly valid but incomplete or limited conclusion ...	3-4	
	...is correctly interpreted so that a completely valid and detailed conclusion...	5-6	

Criteria 4: Evaluation		Mark /6	
Descriptors		Level	
The student's report does not reach a standard described by the descriptors below.		0	
A conclusion... ..the data presented.	...is outlined which is not relevant to the RQ or is not supported by ...	1-2	
	...is described which is relevant to the research question and supported by...	3-4	
	... ,detailed, is described and justified which is entirely relevant to the research question and fully supported by...	5-6	
A conclusion... ..comparison to the accepted scientific context.	...makes superficial...	1-2	
	...is described which makes some...	3-4	
	...is correctly described and justified through relevant...	5-6	
Strengths and weaknesses of the investigation, such as limitations of the data and sources of error, are... ..the methodological issues involved in establishing the conclusion.	... outlined but are restricted to an account of the practical or procedural issues faced.	1-2	
	... described and provide evidence of some awareness of...	3-4	
	... discussed and provide evidence of a clear understanding of...	5-6	
The student has... ..realistic and relevant suggestions for the improvement and extension of the investigation.	... outlined very few...	1-2	
	... described some...	3-4	
	... discussed ...	5-6	

Criteria 5: Communication		Mark /4	
Descriptors		Level	
The student's report does not reach a standard described by the descriptors below.		0	
The presentation of the investigation is...	...unclear, making it difficult to understand the focus, process and outcomes.	1-2	
	...clear. Any errors do not hamper understanding of the focus, process and outcomes.	3-4	
The report is... ..the necessary information on focus, process and outcomes is....	...not well structured and is unclear:missing or is presented in an incoherent or disorganized way.	1-2	
	...well structured and clear:.... ..present and presented in a coherent way.	3-4	
...the focus, process and outcomes of the investigation...	The understanding of... ..is obscured by the presence of inappropriate or irrelevant information.	1-2	
	The report is relevant and concise thereby facilitating a ready understanding of....	3-4	
The use of subject specific terminology and conventions...	...includes many errors.	1-2	
	... is appropriate and correct. Any errors do not hamper understanding.	3-4	

Summary of Marks Achieved on IB Science Internal Assessment Report			
Data Management (DM)	Only Analysis Section	Mark	/6
Experimental Skills & Inquiry (ESI)	All sections except Analysis	Mark	/18
Total		Mark	/24