

IB Experimental Sciences Internal Assessment

Name of Student:		Group Number:		Period:		
Investigation Title:				Circle: Biology Chemistry		
Date:	No. of hours:		Area of syllabus:			
Criterion	Aspects->	1	2	3	Final Mark	Other
Planning a	Completely	The problem/research question is stated clearly.	Hypothesis is directly related to research questioned and explained	Key variables are selected.		
	Partially	The problem/research question is stated, but is unclear or incomplete	The hypothesis(prediction) is stated but isn't explained.	Some variables are selected		
	Not at all	No problem/research question is stated	No hypothesis (prediction) is stated.	No variables are selected		
Planning b	Completely	Appropriate apparatus/materials selected(diagrams may be acceptable)	A realistic method that allows for the control of the variables is designed.	Method allows for collection of sufficient relevant data and excludes collection of irrelevant data is designed.		
	Partially	Some appropriate apparatus/materials are selected or some essential features are missing.	A method that makes some attempt ot allow for the control of variables is designed.	Method allows for collection of insufficient relevant data or both relevant and irrelevant data, is designed.		
	Not at all	No apparatus/materials are selected/	A method that makes no attempt to allow for the control of variables is designed.	Method that allows for the collection of only irrelevant data is designed or no method is designed.		
Data Collection	Completely	Raw data (qualitative/quantitative) is recorded appropriately, including units and uncertainties where necessary.	Raw data is presented clearly, allowing for easy interpretation.			
	Partially	Some raw data is recorded.	Raw data is presented in a disorganized manner.			
	Not at all	No raw data is recorded.	Raw data is presented incomprehensibly or is missing.			
Data Analysis	Completely	Raw data is processed correctly to produce results that help interpretation; error analysis is included.	Data/results are presented appropriately and effectively; errors and uncertainties are taken into account.			
	Partially	Some processing of the raw data is made (attempted) or errors are made processing the data.	Data/results are presented appropriately but not very effectively; where relevant, errors and uncertainties are not taken into account.			
	Not at all	No processing of raw data is carried out	Data/results are presented inappropriately or are presented incomprehensibly ore are absent.			
Evaluation	Completely	Valid conclusion, based on correct interpretation of results, with an explanation; where appropriate, results are compared with literature values.	Procedure, apparatus, materials, and methods, including limitation, weaknesses or errors in manipulation, is evaluated.	Suggestions to improve the investigation following the identification of weaknesses are stated.		
	Partially	A conclusion that has some validity is stated.	The procedure (apparatus, materials, and method) is evaluated partially, but some obvious limitations or errors are missed; irrelevant points may be made.	Suggestions to improve the investigation are stated but are simplistic.		
	Not at all	A conclusion that completely misinterprets the results is drawn or no conclusion is drawn.	The procedure (apparatus, materials, and method) is evaluated superficially or the evaluation is completely irrelevant or is absent.	Suggestions to improve the investigation are unrealistic or no suggestions are stated.		
Manipulative Skills	Completely	Wide range of techniques can be carried out with proficiency and appropriate attention paid to safety.	Variety of instructions can be followed accurately and little or no assistance is required in adapting to new circumstances.			
	Partially	A limited range of techniques can be carried out with proficiency and appropriate attention paid to safety.	A variety of instructions can be followed, mainly accurately, but some assistance may be required.			
	Not at all	Only little attention is paid to safety, whatever the range of techniques that can be carried out with proficiency	Some instructions can be followed accurately but assistance is required.			
Personal Skills a	Completely	Teams, whose members collaborate, can be formed with a wide variety of people.	View of all members of the team are acknowledged and respected.	Views of all members of the team are expected and actively sought, even from those that are reluctant or less confident.		
	Partially	Teams can be formed with a variety of people, but the members do not always collaborate.	The views of most members of the team are acknowledged.	The views of the more confident members of the team are expected and actively sought.		
	Not at all	Teams can be formed with a limited number of people, but the members may not always collaborate.	The views of some members of the team are acknowledged with reluctance.	The views of other members of the team are sought, only after prompting.		
Personal Skills b	Completely	Sci. investigations can be approached independently, with initiative shown, and followed through to completion.	Considerable attention is paid to the ethical aspects of scientific investigation including authenticity of data and information, and the approach to materials.	Considerable attention is paid to the environmental impact of scientific investigations.		
	Partially	Scientific investigations can be approached independently and followed through to completion.	Some attention is paid to the ethical aspects of scientific investigation including authenticity of data and information, and the approach to materials (living or non-living).	Some attention is paid to the environmental impact of scientific investigations.		
	Not at all	Scientific investigations can not be approached independently and followed through to completion.	Little attention is paid to the ethical aspects of scientific investigation including authenticity of data and information, and the approach to materials (living or non-living).	Little attention is paid to the environmental impact of scientific investigations.		
Other						
Totals						

Statement of Ethics

I understand that Lab Reports are individual efforts . Despite conducting experiments and investigations in groups, the lab reports are to be done separately and independently. **I have not copied any part of this report** from any other source, such as the web, literature (books, magazines, etc.), for from other students. If using a computer to produce this report, I have not shared files (data tables, text, graphs, etc.) with another student. ***This report is my own work*** .

Signed: _____