## Rehydration investigation report marking scheme

A Ability to represent information in multiple ways

B Ability to design and conduct an observational experiment

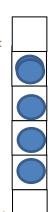
C Ability to design and conduct a fair test experiment

D Ability to communicate scientific ideas

E Ability to collect and analyse experimental data

F Ability to explore alternative solutions and explanations

G Ability to evaluate models, equations, solutions, and claims



Heading	Present =1 mark	Missing = 0 marks	
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	2 marks	1 mark	0 marks
Introduction	Demonstrates a good knowledge of the subject matter and the research conducted by others. Clearly states the reason why the investigation is conducted.	Demonstrates a moderate knowledge of the subject matter and the research conducted by others. Unclear as to the reason why the investigation is conducted.	Missing
Aim	Clearly outlined the aim of the experiment	The aim of the experiment is not clear as it relates to the investigation procedure.	Missing
Hypothesis	Clearly states the prediction of the experiment using an "If, then" statement to reflect the dependent and independent variables. Also includes reasoning for the hypothesis.	It is not clear what the dependent and independent variables are and how they relate to the predicted outcome.	Missing
Apparatus	Clearly identified all material used in this experiment	Identified some of the material used in this experiment	Missing
Procedure	Outlined in detail the manner in which the experiment was conducted.	Some details of the experimental procedure are missing or not in the right order.	Missing

Results	Data collected is shown on properly labelled and ruled	Data is missing and the table is not properly	Missing
	tables.	labelled	
	Data from the table is clearly	Data is expressed in	Missing
	and accurately expressed in	graphs, however,	
	properly labelled graphs with a	labelling is not complete	
	legend, if needed. Graphs have	or the lines of best-fit	
	a:	are not properly drawn	
	-heading	or	
	-clearly labelled axis	data from the table may	
	-and properly drawn lines of	not have been accurately	
	best-fit.	graphed.	
Discussion	Clearly and accurately identifies	Identifies some trends in	Missing
	trends in the data and offers a	the data and/or fails to	
	logical explanation to explain	explain adequately the	
	the observations.	trends in the data.	
	Uses the data to reason,	The data is not used, or	Missing
	accurately, if the hypothesis is	inaccurately used, to	
	supported or refuted.	reason if the hypothesis	
		is supported or refuted.	
	If the hypothesis is refuted the	If the hypothesis is	Missing
	hypothesis is modified in line	refuted an attempt to	
	with the data and briefly	modify the hypothesis is	
	outlines an experiment that will	made, not necessarily in	
	test the revised hypothesis.	line with the data. The	
		experiment outlined is	
		either absent or unclear	
		as to how it will test the	
	If the hypothesis is supported a	modified hypothesis.	
	further question is put forward	,·	
	with a brief outline of an	If the hypothesis is	
	experiment that will test it.	supported a further	
		question is put forward	
		but it is unclear how the	
		experiment will answer	
		the question.	
	Accurately identifies sources of	Identifies some sources	Missing
	error and suggests ways to	of error but does not	
	minimise them.	suggest ways to	
		minimise them.	
Conclusion	Conclusion clearly and concisely	Conclusion does not	Missing
Conclusion	answers the aim.	clearly answer the aim.	1411331118
	answers the ann.	cically answer the aim.	

## Consider the following when writing your report

- Make arguments based on your data and separate the observations from interpretation.
- Provide sufficient detail to enable others to repeat the same experiment.
- Summarise your findings and observations.
- Do not present raw data. Change the raw data into meaningful statistics - percentages, averages, graphs, comparisons.
- Describe the outcome of the trial.
- Do not use the phrase 'made a mistake' or say that the experiment failed, instead, explain the outcome in terms of observable facts.
- Do not make excuses.
- Explain alternative hypotheses (if applicable).
- Explain issues that you did not consider in your initial design or hypothesis.
- Evaluate whether the test was valid, i.e. if the test was repeated would the same conclusions be reached?