

Rubric Criteria Sheet Model 3

		Exceeding the Concept	Satisfactory Concept	Developing the Concept
I N V E S T I G A T I N G	Designing and Performing Investigations or experiments	Project shows originality in design and performance, including the identification and control of variables. All equipment handled correctly.	Project shows a satisfactory effort in the design. Identification of variables has been made. All equipment handled correctly.	Project shows minimum effort in design and performance and/or variables not identified and/or equipment not handled correctly.
	Predicting hypothesising and seeking reasons	Analyses problem, formulates a clear hypothesis for testing and plans an experiment to seek/prove explanations.	Formulates a hypothesis for testing and plans an experiment from this.	Hypothesis not given or unclear and/or experiment is not relevant to seeking reasons for stated hypothesis.
	Making and judging observations	All observations and judgements made accurately and recorded in appropriate manner	Some observations and judgements made accurately and recorded in appropriate manner	Little or no observations and judgements made and/or data recorded inappropriately
U N D E R S T A N D I N G	Interpreting, comparing and analysing data	High level of process thinking evident in all areas (reasoning, inferring, explaining, analysis, extrapolating etc.)	Some high level process thinking evident in the project (reasoning, inferring, explaining, analysis, extrapolating etc.)	An attempt or no evidence of processing data.
	Developing possible, probable and preferred options	Suggests specific recommendations/options that would improve the techniques used or the design of the investigation	Suggests some general recommendations/options that would improve the techniques used or the design of the investigation	No recommendations/options given to improve techniques or design
	Drawing conclusions including, making generalisations and links	All conclusions and generalisations accurate and are consistent with the data	Conclusions and generalisations accurate and/or made with little supporting evidence	Conclusions and generalisations not accurate and/or no supporting evidence shown
C O M M U N I C A T I N G	Creating presentations including diagrams, tables, graphs and models	All relevant information presented in a variety of modes at a high level	Most relevant information presented in a variety of modes at a high level	Information presented without any explanation or not presented in a clear and concise manner
	Clear explanation of ideas and decisions	All information presented in a clear concise manner with all conclusions and generalisations clearly explained	Most information presented in a concise manner with most conclusions and generalisations satisfactorily explained	Scientific genre not present or terminology is continually used incorrectly throughout the report
	Communicates effectively using the correct genre and terminology	Correct terminology and scientific genre presented throughout the project	Correct terminology and scientific genre evident in some of the project	Scientific genre not present or terminology is continually used incorrectly throughout the report
On-balance rating		Competent <input type="checkbox"/> Non-Competent <input type="checkbox"/>		

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