

## PART A RESEARCH REPORT

**NB: It is equally acceptable for the report to be written in either the passive or active voice.**

CRITERIA	High	Medium	Low	Not Shown
1. Introduction	Provides reasons for investigating the topic <b>3</b>	States why the topic is interesting <b>2</b>	Gives information about the project <b>1</b>	Not shown <b>0</b>
2. Aim	A clear, specific statement of the intent of the investigation. <b>3</b>	Describes the topic in general terms but as a statement. <b>2</b>	Describes the topic in general terms in the form of a question. <b>1</b>	Not shown <b>0</b>
3. Hypothesis	States what they think will happen within the investigation and why, providing scientific reasoning. <b>3</b>	States what they think will happen within the investigation and why. <b>2</b>	States what they think will happen within the investigation. <b>1</b>	Not shown <b>0</b>
4. Materials	Lists all materials/equipment used. <b>2</b>	N/A	Lists key materials/equipment used <b>1</b>	Not shown <b>0</b>
5. Method	Describes method in a way that could be used to reproduce the investigation. <b>3</b>	Lists the steps taken within the investigation. <b>2</b>	General description of how the investigation was carried out, all steps not included. <b>1</b>	Not shown <b>0</b>
6. Risk Assessment	All Safety considerations have been identified and reasoning as to why they are a risk included within the risk assessment document. <b>3</b>	Key Safety considerations have been identified and included within the risk assessment document. <b>2</b>	Safety Considerations have been included as part of the method. <b>1</b>	Not shown <b>0</b>
7. Results (Presentation of data)	Students have shown thought and understanding in selecting and using most suitable tables and graphs to represent the results from their investigations. <b>3</b>	Results have been presented in tables and/or graphs with pictures included where appropriate. <b>2</b>	Includes results as a basic statement or table. <b>1</b>	Not shown <b>0</b>
8. Results (Data collection)	Students have completed multiple tests to improve reliability/repeatability and accuracy of results related to aim of project. <b>3</b>	Collects results related to aim of project <b>2</b>	Collects results <b>1</b>	Not shown <b>0</b>
9. Discussion (analysis of results)	States results with clear links to their hypothesis. Clear evidence of recognition of patterns, trends inferences made have been included. Attempts to explain reasoning behind this evidence also included. <b>3</b>	States results with links to their hypothesis and have made basic insights from the results. <b>2</b>	Summarises results <b>1</b>	Not shown <b>0</b>
10. Discussion (Variables)	Listed all variables and selected most suitable controlled and independent variable. Shows clear understanding of why these choices were made. <b>3</b>	List all the variables and identifies the controlled variable and the independent variables. <b>2</b>	Identifies the dependent variable to ensure fair testing. <b>1</b>	Not shown <b>0</b>
11. Discussion (limitation/problems/obstacles)	Students have identified all problems, related them back to the results and understood how these have affected or maintained the validity of their results and learning. <b>3</b>	Students have identified all problems that occurred during the investigation process and able to relate them back to the results. <b>2</b>	Students have identified key problems that occurred during the investigation process. <b>1</b>	Not shown <b>0</b>
12. Discussion (improvements/extensions)	Discusses improvements / extensions linking to method / results <b>3</b>	Lists improvements / extensions linking to method / results <b>2</b>	Lists improvements /extensions <b>1</b>	Not shown <b>0</b>
13. Conclusion	Matches conclusion to the aim of the project <b>3</b>	Links conclusion to the aim of the project <b>2</b>	Includes conclusion <b>1</b>	Not shown <b>0</b>

**TOTAL ..... /38**

## PART B GROUP PRESENTATION or video (country entries only)

CRITERIA	High	Medium	Low	Not shown
14. Student participation in group presentation	All students contribute to the understanding of the project by the judges 3	Students contribute to the understanding of the project by the judges 2	Students participate in the presentation 1	Not shown 0
15. Student participation in research project	Students justify the way all class members participated in the research project 3	Students describe the way all class members participated in the research project 2	Students describe how research project was carried out in the class 1	Not shown 0
16. Student understanding	Students articulate learning gained through participation in the project 5-6	Students describe the research project 3-4	Students describe aspects of the research project 1-2	Not shown 0
17. Student understanding for further extension of research	Students clearly articulate and understand potential for further extension of research beyond their classroom. 5-6	Students clearly articulate and understand potential for further extension of research. 3-4	Students describe potential extension of research. 1-2	Not shown 0
18. Relationship between the Evidence of Class Involvement and research project	Students justify the links between the evidence and the research project 3	Students describe the links between the evidence and the research project 2	Students describe the evidence 1	Not shown 0
19. Presentation of project	Presentation assists the judges to gain insight into the nature of the class project 5-6	Presentation assists the judges to form a view of the class project 3-4	Presentation allows the judges to form a view of the class project 1-2	Not shown 0

**TOTAL ...../27**

## Part C Overall Project

CRITERIA	High	Medium	Low	Not shown
20. Ingenious topic	Topic intrigues judges 4	Topic interests judges 2 – 3	Topic is expected by judges 1	Not shown 0
21. Student-centred	Student decision-making drives experimental research 6	Experimental research includes student decision-making 3 – 5	Student preferences drives task allocation within the project 1 – 2	Not shown 0
22. Scientific content	Experimental research generates scientific knowledge and encourages extension of topics 6	Experimental research refines scientific knowledge and encourages extension of topics 3 – 5	Experimental research explores scientific ideas 1	Not shown 0
23. Experimental research	Students demonstrated active engagement and involvement in all parts of the experimental research process 6	Students participated in all parts of the experimental research process 3 – 5	Students conduct experiments 1 – 2	Not shown 0
24. Acknowledgments and references	People and their contributions are acknowledged and bibliography was included 3	A list of acknowledgments and bibliography was included 2	Either a list of acknowledgments and bibliography was included 1	Not shown 0

**TOTAL ...../25.**