



Think Science! Judging Rubric for Years 7-8

Science Inquiry skill	Developing	Proficient	Excelling
Questioning and predicting	 states a question and/or aim that can be scientifically investigated 	states a clear question and/or aim that can be scientifically investigated	states a clear, precise question and/or aim that can be scientifically investigated
	identifies some relevant information	describes some scientific concepts that underlie the topic being investigated	describes, in detail, the context and the main scientific concepts that underlie the topic being investigated
	• proposes a testable hypothesis	proposes a testable hypothesis and uses understanding of relevant science concepts to support the hypothesis	proposes a testable and well-informed hypothesis, using detailed reasoning based on background research to support the hypothesis
Planning and conducting	considers some safety concerns	identifies and manages risks and any ethical concerns	identifies and comprehensively manages risks and any ethical concerns
	identifies the independent and dependent variables, and attempts to identify variables to be controlled	Identifies the independent and dependent variables and describes how they are measured, and identifies variables to be controlled.	identifies the independent and dependent variables and describes in detail how they are measured, and provides a detailed analysis of variables to be controlled.
	 describes an experimental procedure which includes some actions that will contribute to a fair test 	describes a logical and reproducible experimental procedure including measures that contribute to a fair test, and that uses equipment to generate data with precision	describes, in detail, a logical and reproducible experimental procedure, emphasising measures to ensure a fair test, and that uses equipment to generate data with precision
Processing, modelling and analysing	creates a table to display measured and processed data	creates an appropriately labelled table to display measured data and averages	creates a well-organised and appropriately labelled table to display measured data and averages
	 uses a further representation of results, including diagrams, photos, graphs 	uses further appropriate representation to display results, including diagrams, photos, graphs, models, mathematical relationships	uses further appropriate representation to clearly display results, including diagrams, photos, graphs, models, mathematical relationships
	identifies patterns and trends in data	clearly states suggested patterns, trends and relationships in data, and identifies anomalies	describes, in detail, patterns, trends and relationships in data, and identifies anomalies





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Evaluating	 relates an observed pattern, trend or relationship in results to a relevant science concept or theory 	explains observed patterns, trends and relationships in results with reference to relevant science concepts and theory	• comprehensively explains observed patterns, trends and relationships in results, with detailed reference to relevant science concepts and theory
	identifies a real-life situation related to the investigation	 describes a real-life situation related to the investigation or a further application of the research 	applies findings to describe real-life situations and further applications of the research
	 identifies a possible source of error in the investigation and suggests a modification to the method 	• identifies possible sources of error and assumptions in the investigation and suggests some valid improvements to the investigation	 identifies possible sources of error and assumptions in the investigation, describing their impact on the results, and suggests some valid improvements to the investigation
	• formulates a conclusion that is supported by results	• formulates a clear conclusion that is supported by results	 formulates a clear, precise conclusion that is supported by results
Communicating	presents a presentation that showcases some parts of their investigation	 presents a well-sequenced and engaging presentation, which clearly showcases all parts of their investigation 	 presents a well-sequenced, clear, concise, and very engaging presentation, which grabs audience attention, and clearly showcases and details all parts of their investigation
	basic use of digital tools and presentation is significantly shorter or longer than 4 min	good use of digital tools and presentation is approximately 4 min	excellent use of digital tools and presentation is approximately 4 min

Rubric content follows the Australian Curriculum v9, 2022