

2025 RUBRIC

INVESTIGATION AIM (5 MARKS)		Max mark	Mark awarded
Clearly articulates the objective of their investigation, detailing the reasons behind the choice of topic and its relevance. Highlights the impact of the topic on mathematical concepts within real-world contexts.	Clearly defined aim	1	
	Overview of the investigation method	1	
	Justification for selecting this topic	1	
	Connections to real-world applications and usefulness of this investigation	2	
METHODOLOGY AND MATHEMATICAL THINKING (6 MARKS)			
Lists and describes the mathematical strategies and content and how these were used to complete the investigation.	Detailed and accurate listing of all mathematical strategies and content used in the investigation	2	
	Clear description of how each mathematical strategy was applied in the investigation	2	
	More than one mathematical strategy has been used	2	
MATHEMATICAL NOTATION (4 MARKS)			
Uses correct and accurate language, terms, symbols and calculations to complete the investigation.	Accurate mathematical language	1	
	Accurate mathematical symbols	1	
	Accurate mathematical applications and calculations	2	
REAL WORLD CONNECTIONS (5 MARKS)			
Makes clear connections between the real-world in the investigation.	States the connections to real-world	2	
	Accurately discusses and elaborates the real-world implications	2	
	Offers a nuanced and sophisticated analysis, drawing further on the elaborations to real-world connections and implications	1	
SUBTOTAL		20	

Turn over →

MATHEMATICAL TOOLS (3 MARKS)		Max mark	Mark awarded
Selects and uses appropriate mathematical tools, including digital technologies, to clearly represent and communicate findings.	Uses age-appropriate mathematical tools accurately	1	
	Student(s) have chosen the most appropriate/efficient tool for this analysis	1	
	Sophisticated use of the tool is demonstrated	1	
ANALYSIS (6 MARKS)			
Appropriately analyses and explains the investigation's mathematical findings and connects them to the initial aim.	Accurately details the analysis of the mathematics	3	
	Generalises a finding from their analysis	2	
	Answers the investigation aim	1	
REFLECTION ON LEARNING (3 MARKS)			
Reflects on the mathematical learning achieved in the investigations.	States their learning	1	
	Accurately discusses and elaborates on their learning and growth	1	
	Discusses the implications for them going forward	1	
GENERAL CAPABILITIES (2 MARKS)			
Considers ethical, intercultural, social, personal, creative and critical thinking, and technological aspects to explore the mathematics within the investigation.	Accurately identifies the relevant general capabilities related to the investigation	1	
	Elaborates on the connection to the general capabilities and discusses the implications of the investigation on them	1	
ACKNOWLEDGEMENTS AND REFERENCES (3 MARKS)			
Acknowledges resources and research used (including reference materials and assistance from other people including peers and teachers).	Acknowledges people	1	
	Acknowledges resources and AI	1	
	Lists references in an orderly manner	1	
EVIDENCE OF WORK (3 MARKS)			
Provides detailed evidence of work (e.g. drafts, written calculations, journal entries, annotated photographs) ensuring the investigation is a true representation of the student's learning.	Provides ample evidence that the work is the student's own	3	
SUBTOTAL		20	
SUBTOTAL FROM PAGE 1		20	
TOTAL MARK		40	