

MARKING RUBRIC



Criteria	Α	В	С	D	E
Folio	Explicitly communicates	Communicates clear and	Communicates	Defines part of the	Identifies a part of the
Define the problem,	synthesised, accurate and	accurate constraints,	constraints, success	problem, identifies one	problem.
identify constraints,	relevant constraints,	success criteria, ideas and	criteria, ideas and	constraint, records ideas	
brainstorm solutions	success criteria, ideas and	possible solutions.	possible solutions.	for one part of the task.	
TE4-1DP, TE4-2DP	solutions.				
Folio	Expertly applies the	Competently applies the	Applies the contextual	Applies the contextual	Can identify aspects of
Fire-Ed Up context -	contextual knowledge of	contextual knowledge of	knowledge of the AFDRS	knowledge to either	AFDRS or FBI in design
Australian Fire Danger	the AFDRS and FBI into	the AFDRS and FBI into	and FBI into the design	AFDRS or FBI into the	solutions.
Rating System (AFDRS)	the design solutions that	the design solutions that	solutions that could	design solutions.	
and Fire Behaviour Index	could produce more	could produce more	produce more actuate fire		
(FBI)	actuate fire danger	actuate fire danger	danger predictions.		
TE4-1DP, TE4-2DP	predictions.	predictions.			
Folio	Annotates multiple	Annotates multiple	Design solution sketches	Design solution sketches	Sketches are incomplete.
Sketching design solutions	labelled design solution	labelled design solution	are labelled.	are missing labels and	
TE4-1DP, TE4-2DP	sketches that demonstrate methodical progression of the planned solution.	sketches that are appropriate for the planned solution.		annotations.	
Prototype	Creates and uploads	Modifies and uploads	Uses and refines	Uses micro-python code.	Uses micro-python code.
Micro Python Coding	micro-python code into	micro-python code into	functional micro-python	Continuit and a sil	
TE4-4DP	the Fire-Ed Up Raspberry	the Fire-Ed Up Raspberry	code.	Can identify an algorithm.	
	Pi units.	Pi units.	Demonstrates some		
	Demonstrates desk-	Demonstrates desk-	understanding of		
	checking or other	checking or other	algorithms.		
	strategies to test logic of	strategies to test logic of			
	algorithms.	algorithms.			



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Prototype	Design meets prototype	Design meets prototype	Design meets prototype	Design meets some	The prototype is
Design and construction	criteria with additional	criteria with an additional	criteria.	prototype criteria.	incomplete.
TE4-2DP	functions in insightful ways. Extensive evidence of how prototype was created, discussing lessons learned from previous stages.	function. Prototype is well constructed. Detailed evidence of how prototype was created, explaining lessons learned from previous stages.	Prototype is constructed with care but may be missing details. Satisfactory evidence of how prototype was created, describing a lesson learned from a previous stage.	The prototype is poorly finished or missing details. Limited evidence of how prototype was created.	
Evaluates and communicates design solution TE4-1DP, TE4-2DP, TE4-4DP	Documents the use of a systematic evaluation process and explains the significance of observations. Final design solution meeting all set success criteria.	Documents the use of a criteria-based evaluation process. Final design solution meeting most set success criteria.	Demonstrates use of an evaluation process. Final design solution meeting some set success criteria.	Documents some of the evaluation criteria and shows the final design solution.	Draws a final design solution but no clear documentation of evaluation.
Demonstrates understanding of Fire related careers and pathways TE4-10TS	Explains how people in fire-based industries can use STEM and contribute to making society safer. Can identify a number of fire-based roles, skills needed and training and courses available.	Identify how people in fire-based industries can use STEM and contribute to making society safer. Can identify some fire-based roles, skills needed and training and courses available.	Identify how people in fire-based industries can use STEM. Can identify a fire-based role, skills needed and training and courses available.	Can identify a fire-based role, skills needed and training and courses available.	Can identify a fire-based role.