

## Rubric for Maker Project AY 2025-26

Criterion	3	2	1	0
Introduction:	There is a clearly defined	There is a clearly defined	The introduction	The introduction
<ul> <li>Problem</li> </ul>	problem statement	problem statement related	section is vague or	is missing
statement	related to SDG 11	to SDG 11 (This condition	seems largely	
<ul> <li>Rationale</li> </ul>		needs to be true to get a	incomplete or	OR
<ul> <li>Existing</li> </ul>	AND	score of 2)	confusing.	
Solutions			This could be	Even after reading
<ul> <li>Proposed</li> </ul>	Students provide a	If the above condition is	because any of the	the entire
Solution	strong rationale for	true but then, any one of	following	introduction, it is
	selecting this problem	the following conditions is	components are	not clear what is
	including: a personal	also true, the student gets	missing, vague, or	the problem that
	connection, two well-	a score of 2	not appropriately	students are
	integrated research		researched- the	trying to solve.
	references, correct APA		problem	
	citations, and a clear	The rationale includes a	statement,	
	alignment with targets	personal connection for	alignment to SDG	
	described under SDG 11.	why students want to solve	11 and its targets,	
		this problem but there is	market analysis or	
	AND	only one well-integrated	secondary	
		research reference, or the	research.	
	Students identify 2-3	students do not clearly		
	solutions that already	explain how this problem is	The section does	
	exist in the market, list	aligned to specific targets	not convince the	
	the pros and cons of	under SDG 11.	reader that the	
	each and explain why		problem is	
	their proposed solution is	OR	authentic or	
	better.		important, or that	
		Students identify and	the solution	
	AND	analyse only one solution	students are	
		that already exists in the	offering is better	
	The introduction	market or do not make a	than what exists in	
	convinces the reader that	strong case for why their	the market.	
	the students have done	solution is better.		
	thorough research on			
	this problem and existing			
	solutions			
Process	Students list all	Students list the materials,	The materials list	This section is
<ul> <li>Resources</li> </ul>	materials, objects, tools	objects, tools and other	seems bare	missing
<ul> <li>Design</li> </ul>	and other resources used	resources used to build the	minimum	
Iterations	to build the prototype, as	prototype but don't		OR
<ul> <li>Budget</li> </ul>	well as provide a	provide a strong rationale	OR	
<ul><li>Photos</li></ul>	rationale for selecting	for selecting these		The section has
	these materials versus	materials.	Only the final	major
	other similar materials		prototype sketch is	components
		AND/OR	included without	missing or has
	AND		showing any	such few details
			iterations in design	that it doesn't tell



	The report includes detailed labelled sketches of every design iteration with an explanation for why designs were revised. The sketches are accurate visuals of their designs with labels describing essential components.	Detailed labelled sketches of each iteration are provided, but without an explanation for design revisions.  AND/OR  The report presents a budget to build the prototype but it lacks details.	OR The report presents a budget which is unrealistic or incomplete OR No photos are included	you anything of value about the process of making the final prototype.
	The report presents a realistic budget required to build the prototype.  AND	AND/OR  Photographs are provided to showcase one or two phases of the process.	In general, if a few components are missing or most components seem largely incomplete	
	This section includes photographs showcasing different phases of building the protype (brainstorming, collecting resources, building, testing, collecting data etc.)	In general, if all the components are present but lack some details, explanations or descriptions, students could be a given a 2	leaving you with many questions, students could be given a 1	
STEM Connections	Students clearly explain how their prototype works. They are able to draw connections between the mechanism /working of the prototype to STEM concepts. They also identify and describe the drawbacks of their design from a STEM perspective.	Students clearly explain how their prototype woks. They are able to draw connections between the mechanism /working of the prototype to STEM concepts. However, students do not describe the drawbacks from a STEM perspective.	The mechanism of the prototype is explained, but no connection to STEM concepts is made.	No explanation of the prototype's working mechanism is provided. No connection to STEM concepts is made.
Testing Plan	The report includes a detailed data collection plan to test the prototype using methods that are logical and aligned to the problem that the students want to solve.	The report includes a data collection plan to test the prototype using methods that are logical and aligned to the problem that the students want to solve.  BUT  Quantity or quality of data could have been stronger	A basic or incomplete testing plan is included.  OR  Data analysis is weak, making it unclear whether	The report doesn't include any testing plan.  OR  No data collection or analysis is provided to back
	solve.		•	•



	AND	evidence that the	effectively solves	conclusion about
	AND	prototype works and	the problem.	the success of the
	The data collected are	successfully solves the	the problem.	prototype.
	sufficient to draw a valid	problem		prototype.
	conclusion.	problem		
	Conclusion.			
	AND			
	Data analysis shows			
	unambiguous and			
	convincing evidence that			
	the final prototype solves			
	the selected problem.			
Demonstration of	The report includes a	A YouTube video link is	A YouTube video	No YouTube video
the prototype	YouTube video link of less	included but the	link is included, but	link is provided.
	than 90 seconds that	demonstration of the	the demonstration	
	shows a clear	prototype or explanation of	/ explanation is	
	demonstration of the	its working could have	minimal or unclear.	
	prototype with an	been better		
	explanation of how it	shot/narrated/explained.	The video does not	
	works or what it does.		fully convince the	
	1		viewer that the	
	AND		prototype works.	
	!			
	The demo convinces the			
	viewer that the			
	prototype was fully			
	functioning when tested			
	by the students			
Students'	The reflections include	The reflections include	The reflections are	No reflections are
reflections	detailed and authentic	some insights <b>on</b> learnings	minimal and do not	included.
	insights on what every	and improvements, but	provide <b>c</b> lear	
	student learned from the	lack depth or clarity.	insights on learning	
	project and possible		or next steps.	
	improvements or next		OR	
	steps.		<50% of the	
			students from the	
			whole group have	
			shared reflections	