

Name:

Date:

Class:

Project Rubric

Criteria	1 - Beginning	2- Developing	3 - Proficient	4 - Advanced	Score
Problem Formulation	Problem is not defined or lacks a clear user.	Problem identifies a user and a need, but the "because" (insight) is missing.	Problem clearly defines the user, need, and insight using the ABCD format.	Problem clearly defines the user and need and identifies specific constraints (time/materials).	
Ideation & Solutions	Only 1 idea is generated; student jumps to solution.	2-3 ideas are listed but they are very similar to each other.	5 distinct ideas are listed, and the final choice is justified.	5+ creative ideas are listed; explains why others were rejected based on constraints.	
Python Syntax & Structure	Code has major syntax errors; missing library imports.	Library is imported, but indentation is inconsistent or incorrect.	Code shows correct use of import, proper indentation, and no syntax errors.	Code is clean, well-indented, and includes "comments" or clear logic.	
Logic & Iteration (Loops)	Code is "flat" (sequential) with no repetition logic.	Repetition is attempted but uses long, manual "copy-paste" code.	Correctly implements a <code>for</code> or <code>while</code> loop to handle repetitive tasks.	Loop is used efficiently; recognizes and removes all unnecessary patterns.	

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Criteria	1 - Beginning	2- Developing	3 - Proficient	4 - Advanced	Score
Micro:bit Hardware Use	Does not use the display or inputs correctly.	Uses the LED display but the output is static or unclear.	Effectively uses the display to communicate a solution to the user.	Creative use of display (images/scrolling text) to solve the user's specific need.	
Reflection & Debugging	No mention of challenges or changes made.	Identifies a bug but cannot explain how it was resolved.	Describes a technical challenge and the steps taken to fix it.	Articulates how testing influenced the final design and what they'd improve.	

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