

Name:

Date:

Class:

Project Worksheet

Engineering Design Thinking

Who is the user?

The Problem Statement: My user [user name/group] needs a way to [specific need] because [observation/frustration].

The Constraint: List one limitation you face (e.g., time, only 1 micro:bit, or specific materials).

Seeking Solutions & Prototyping

Brainstorm: List three quick ways to solve the problem using a micro:bit.

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The Chosen Idea: Which idea will you build, and why?

System Planning: Draw a simple sketch of your project. Label the micro:bit and any crafting materials.

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Algorithmic Thinking (The Plan)

Write your **Pseudocode** here. Explain the steps your "brain" (micro:bit) must follow.

Example: 1. Show Heart -> 2. Wait 1 sec -> 3. Clear Display.

Pattern Recognition (Efficiency)

Did you have to **repeat** the same code many times?

The Loop: Describe how you used a `for` loop or `while` loop to make your code shorter and more efficient.

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Debugging (Thriving in Uncertainty)

What is one "bug" or challenge you found in your Python code?

How did you fix it?

Reflecting Frequently

If you had two more hours, what would you add to or edit on your project?

Which skill did you use most today, and why?

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