E8.3

UNIT E8 · CIRCUITCLASS TASK CARD

Flowcharts in CircuitClass

UNIT PROGRESS

TASK

Build and simulate a switch-controlled buzzer flowchart, then test it.

YOU NEED

- ☐ CircuitClass · flowchart mode (needs CircuitClass flowchart mode if not yet released)
- ☐ About 20 minutes

NEEDS CIRCUITCLASS FLOWCHART MODE

If flowchart mode is not yet available, use PICAXE Editor, Tinkercad Circuits or MakeCode with the same pin numbers.

1 · Build

Add a microcontroller. Wire a switch from 5 V to pin 2 and a buzzer from pin 5 to 0 V. Keep these pin numbers.

2 · Flowchart

Draw: Start → 'Pin 2 on?' (No loops back) → Switch on pin 5 → Wait 1 s → Switch off pin 5 → continuous loop back to the decision.

3 · Test

Test	Switch	Buzzer (expected)	Buzzer (seen)
1	not pressed	off	
2	pressed once	on for 1 s	
3	held down		

4 · Check

Do your results match the simulation? Write one sentence.