



Pathway – Level 1

Introduction to Raspberry Pi Pico: LEDs, buzzers, switches, and dials

In this introduction to digital making with Raspberry Pi Pico for beginners, you will learn how to connect and control LEDs, buttons, switches, buzzers and potentiometers (dials).

Explore

Get new skills

LED firefly

Use a Raspberry Pi Pico to make an LED firefly that flashes in a particular pattern, just like fireflies in nature



Party popper

Make a reusable party popper that rewards you with a light and sound display when it is pulled



Beating heart

Make a papercraft beating heart with a potentiometer to control an LED that blinks like a heartbeat



Design

Make design decisions

Mood indicator

Create a mood indicator with coloured lights to emote your current mood



Sound machine

Create a sound machine that will play sound effects or music using buttons, switches, or a potentiometer



Invent

Create a unique solution

Sensory gadget

Create a sensory gadget using your Raspberry Pi Pico

