Lesson 1

Introduction to the Pico  
homework

worksheet

**The Raspberry Pi Pico Overview**

A computer chip with many different colored labels

Description automatically generated

**Activity 1:**

Read the information on the Raspberry Pi Pico and answer the questions below.

The Raspberry Pi Pico is a microcontroller board developed by the Raspberry Pi Foundation. It was released in January 2021 and is designed to provide a low-cost and versatile platform for electronics projects.

Here are some key features and specifications of the Raspberry Pi Pico:

The Pico is powered by the RP2040 microcontroller, which was also designed by the Raspberry Pi Foundation. The RP2040 features a dual-core ARM Cortex-M0+ processor running at 133 MHz.

**Memory**: It has 264 KB of SRAM GPIO (General Purpose Input/Output): The Pico has 26 GPIO pins, which can be used for various digital and analogue input/output tasks. This means devices such as motors, and sensors can be added to the Pico to create systems which can be used in day-to-day life such as alarm systems, robotics, heating and lighting control systems. It’s also great for creating small arcade style games.

**Micro-USB Port**: The Pico is powered and programmed via a micro-USB port.

Boot Options: The Pico can be used in two main ways - as a standalone microcontroller as part of an embedded system or as a USB peripheral device.

**Answer the following questions:**

What is the processor speed in MHz on the Pico?

How many GPI/O pins or on the Pico?

How is the Pico powered?

What is the meaning of GPI/O?