Activity 4 – Analog v.s. Digital

We are going to control the speed of a small vibrating motor using analog values created with a potentiometer.

Dig	ital	Analog	
A set number of values, such as ON and OFF.	ON ~ OFF	An infinite range of values	

Potentiometer

A Potentiometer (pot) is a variable resistor. Turning the knob will increase or decrease the resistance between the middle pin and one of the outside pins.

By connecting the two outside pins of a potentiometer to 5V and GND, the middle pin will give us an analog voltage value between 5V and GND depending on how the knob is turned.





Circuit Diagram to Control a Vibrator Using a Potentiometer



¹ Image from Fritzing

Author: Harry Pigot Turning the Knob of the Potentiometer



Knob turned counterclockwise

Ideas, Observations, Questions

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