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How is this circuit, or a circuit like it, used in everyday life? Provide at least three examples.

5.

Use your multimeter as indicated and measure the voltage of the potentiometer circuit while you turn the dial up and down. Explain below what happens.

Circuit:

Can you turn your LED up and down using the potentiometer?

Great. Pay attention to this circuit, potentiometers (also called trimpots) are great for creating analog user interfaces. With a potentiometer there are up to 1024 settings on a single dial!

2.

Add the following to the circuit code and upload:

In Setup: Serial.begin(9600);

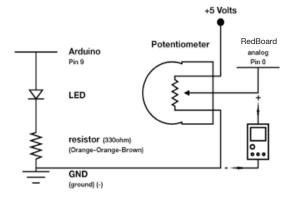
In Loop after all other code: Serial.println(sensorValue); Now open the Serial Communication window.

3.

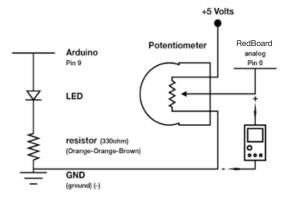
Replace the LED component (in the schematic) with an element or component from one of the previous circuits, extra credit if you decide to replace it with a motor. Explain which aspect of the element or component is controlled by the potentiometer. Example: replace LED with Piezo speaker and control pitch with potentiometer.

4.

Aspect:



Circuit:



7.

Potentiometers are everywhere. List at least three appliances that use potentiometers as an input. Also list what the potentiometer input controls (also known as an output).

6.	Draw a logic flow chart of the circuit here:
0.	Draw a logic flow chart of the circuit here.

Draw one example of how this circuit could be used in everyday life. Label all components and give it a title.