

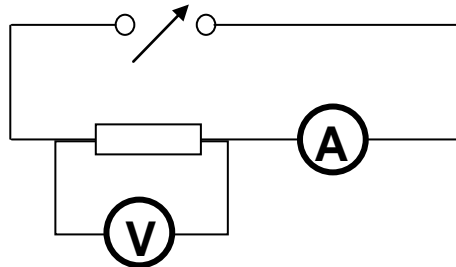
Electricity - Homework 4

1. (a) Draw the circuit symbol for a variable resistor. (1)

(b) Name two every day uses for a variable resistor.
_____ (1)

2. (a) Two pupils set up the circuit below to investigate what happens to the current through a resistor as the voltage across it changes. They recorded their results in the table below.

Voltage(volts)	Current(amps)
2	0.05
4	0.1
6	0.15
8	0.2
10	0.25



Use these results to plot a line graph of voltage against current on the graph paper given to you. (4)

(b) Use the equation $R = V/I$ to work out the size of the resistor. (2)

3. (a) Draw the circuit symbol for a thermistor. (1)

(b) If the temperature of a thermistor is increased what will happen to its resistance? (1)