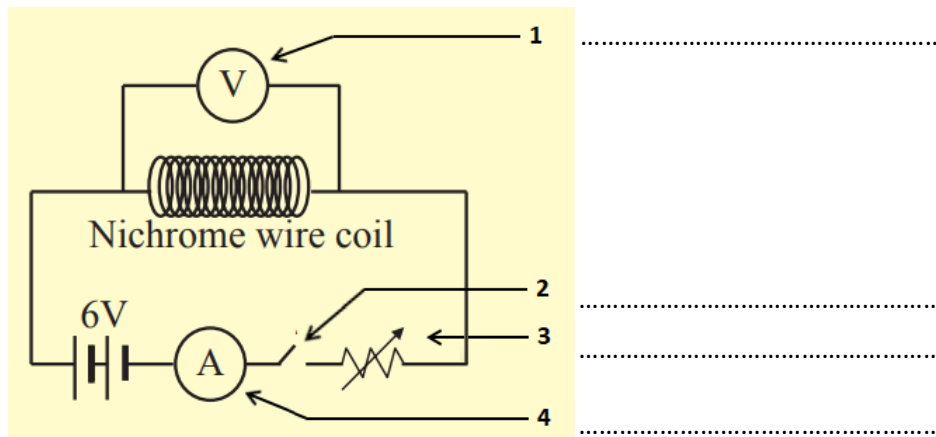


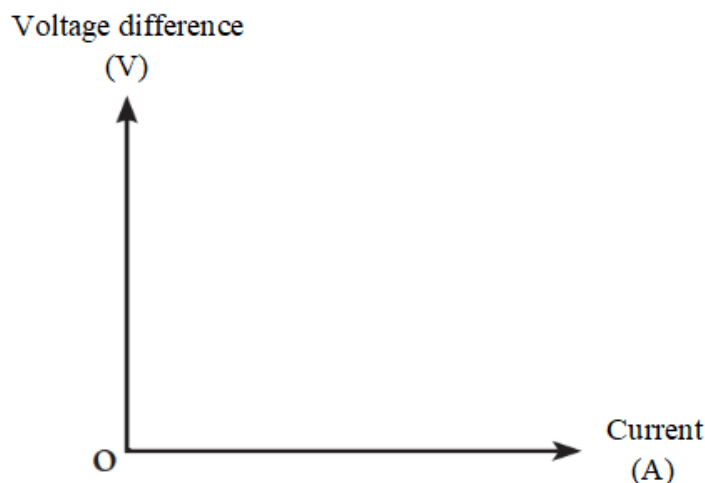


Current Electricity

1. Name the devices denoted as 1, 2, 3 and 4 of the circuit diagram.



2. For what activity is this above circuit used?
.....
3. Indicate separately how the devices 1 and 4 are connected to the circuit.
.....
.....
4. What is the function of the device denoted as 3 here?
.....
5. What is the tactic used here to prevent the heating of the Nichrome coil?
.....
6. Draw an outline of the standard graph obtained from this activity.



7 . Write down the Ohm's law and its mathematical relationship.

.....

.....

.....

.....

8 . What are known as resistors?

.....

.....

.....

9 . There are three main types of resistors. Name them.

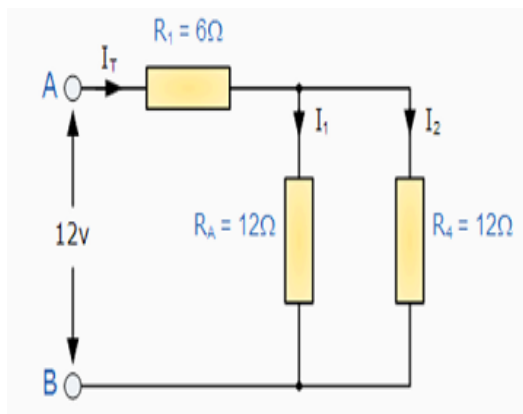
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10 . Calculate the equivalent resistance of the following resistor systems.

a)



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.....

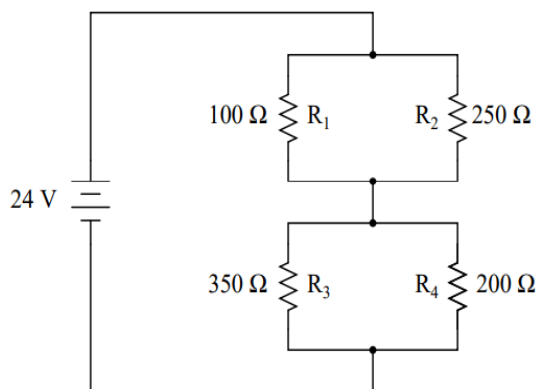
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b)



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11 . Find the resistance values of the given resistors using the color code table.

Resistor color codes

Number	Colour		Number to be multiplied by According the color of the third or fourth band
0	Black		$10^0 = 1$
1	Brown		$10^1 = 10$
2	Red		$10^2 = 100$
3	Orange		$10^3 = 1000$
4	Tellow		$10^4 = 10000$
5	Green		$10^5 = 100000$
6	Blue		$10^6 = 1000000$
7	Purple		$10^7 = 10000000$
8	Gray		$10^8 = 100000000$
9	White		$10^9 = 1000000000$
-1	Gold		$10^{-1} = 0.1$
-2	Silver		$10^{-2} = 0.01$

Color codes to resistor tolerance

Color	brown	red	gold	silver	No fourth color band
Tolerance value	$\pm 1\%$	$\pm 2\%$	$\pm 5\%$	$\pm 10\%$	$\pm 20\%$

