Electric Circuits

An electric circuit is a *complete pathway* that allows *electrons* to flow. Electric potential is provided at a source and is "used" by elements of a completed electric circuit.

Define each of the following basic components of an electric circuit.

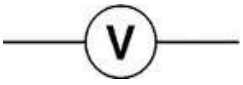
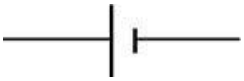
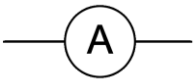
(a) source - the source of electrical energy (example: a battery)

(b) conductor - the wire through which electric current flows .

(c) load - a device that transfomrs electrical energy into other forms of energy (example: a lightbulb

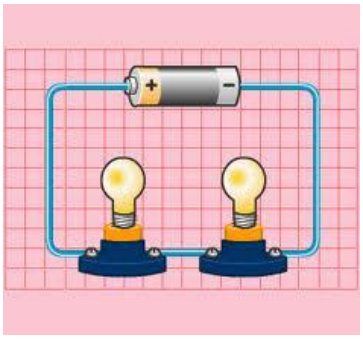
(d) switch - a device that can turn the circuit on or off by closing or opening the circuit

Draw the circuit symbol for each component
See page 262

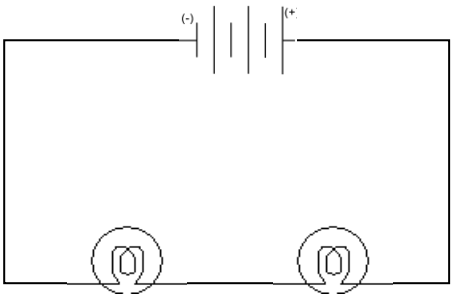
Component	Circuit Symbol
1. conducting wire	
2. bulb	
3. voltmeter	
4. open switch	
5. cell	
6. closed switch	
7. battery (3 cells)	
8. ammeter	
9. resistor	

Draw a proper circuit diagram for each of the following circuits.

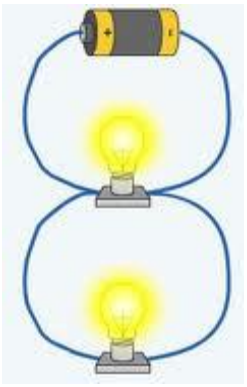
Circuit A



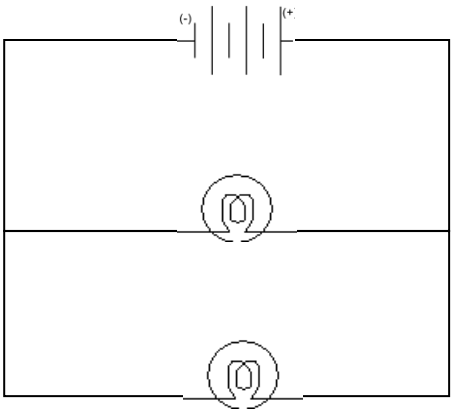
Circuit Diagram A



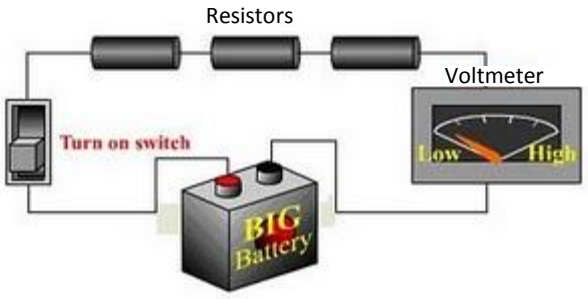
Circuit B



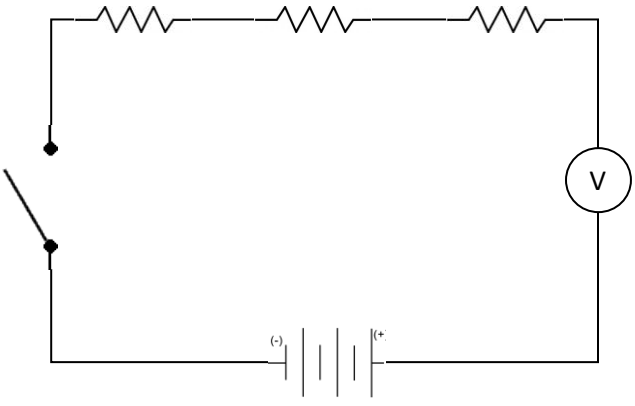
Circuit Diagram B



Circuit C



Circuit Diagram C



Complete 8-2B "Drawing Circuit Diagrams" on page 263 in your notebook.