

WHAT IS

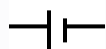



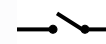

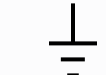
Current  
ELECTRICITY?



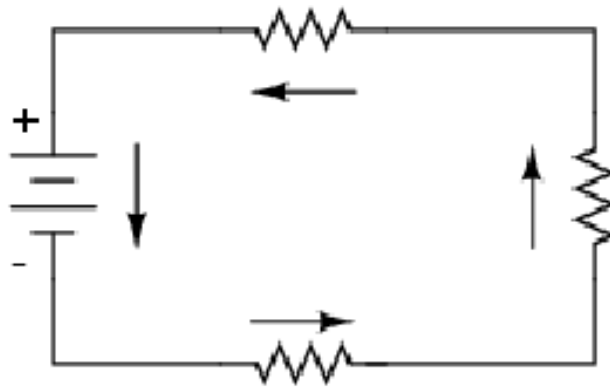
## Current Electricity

- Is the study of the flow of free electrons through a conductor
- Materials that have very “tightly bound” electrons have few free electrons when an electric force is applied. These materials are insulators (e.g. rubber, glass, dry wood)
- Materials that allow the movement of a large number of free electrons are called conductors (e.g., silver, copper, aluminum)
- The movement of free electrons along a wire in an electric circuit is electric current

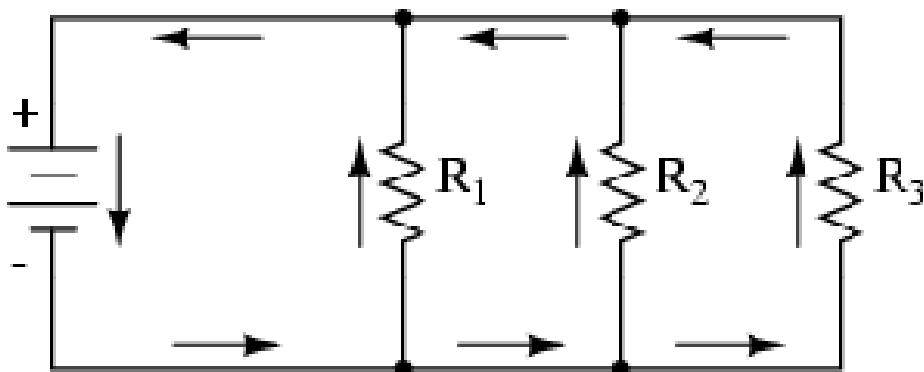
## Symbols for Circuit Diagrams

|   |   |
|---|---|
|  | Battery (short side is negative terminal) |
|  | Wire conductor                            |
|  | Resistor                                  |
|  | Light bulb (or other load)                |
|  | Open switch                               |
|  | Closed switch                             |
|  | Ground                                    |

*Series*



*Parallel*



## TASK

- o **Construct a circuit using the circuit kits and draw a circuit diagram to represent that circuit.**