

The total resistance in a series circuit is equal to the sum of the individual resistances of the load (bulb). Current is the same in every part of the circuit. The current is equal to the voltage divided by the total resistance. As more load (bulb) is added in a series circuit, the smaller the current as reflected by the brightness of the bulb. The voltage across each load depends on the load's resistance. The sum of the voltage across each load is equal to the total voltage.

Parallel connection

Circuit B in Activity 3 is a parallel circuit. In a parallel circuit, loads form branches; each provides a separate path for charges to flow. A gap or a break in any branch will not affect the other branches. Thus, when one bulb is removed from the socket, a gap is created only for that branch. The other bulbs still glow as their path is still complete.

In a parallel connection the voltage is the same across each load. The total current is equal to the sum of the currents in the branches. The amount of current is inversely proportional to the resistance of the load.

Activity

3

What's the connection?

- In this activity students will find out how series and parallel connections are constructed. Giving them a situation to figure out how to do it stimulates problem solving skills of students.
- Be sure that when you let them do circuit A there should only be three wires for each group. For circuit B only four wires should be given. If the number of wires is not limited, they will not be able to execute the simplest way to demonstrate connections of bulbs in series and parallel.
- Tell the class to show them what they have constructed and check if it fits to the condition (one bulb unscrewed, then other one turns off for Circuit A; one bulb is unscrewed and the other bulb remains lighted for Circuit B). Usually the series connection is easier for the students. For parallel connections, students will experience some challenge in doing it.
- Most textbooks show parallel connections shown in Figure 6:

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AN Whitehead



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