

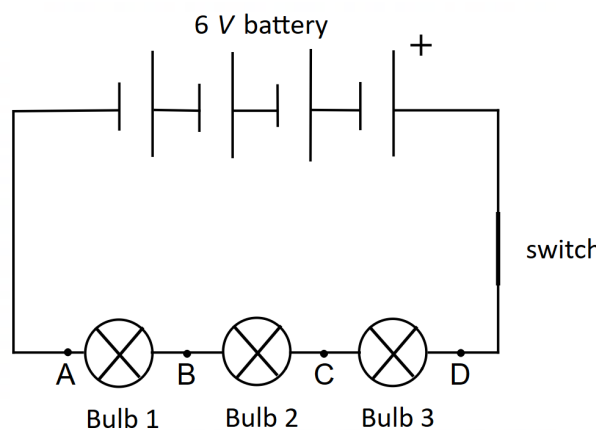
Lesson 2: Student's worksheet

Aim: To identify the blown out bulb in a series circuit using the continuity test

Procedure:

Ask your teacher to help if needed.

1. You are provided with pre-connected circuit as shown below.



Switch on the circuit and check if the bulbs light up.

2. Switch off the circuit.
3. One of the bulbs is blown. You are required to identify which bulb is blown. You are advised to use the multimeter to check the continuity across each bulb. You can do this by connecting the multimeter probes across the terminals each bulb successively, that is across AB, BC and CD.

Connection across	Does the multimeter beep?(yes/no)
Bulb 1 AB	
Bulb 2 BC	
Bulb 3 CD	

4. State which bulb is faulty:
5. Replace the faulty bulb by a good one. Switch on the circuit to check if the bulbs light up.