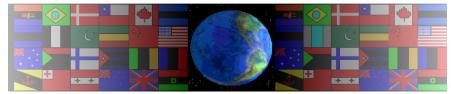
REVISION CARDS - SERIES AND PARALLEL CIRCUITS

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On behalf of The World Association of Technology Teachers

W.A.T.T.



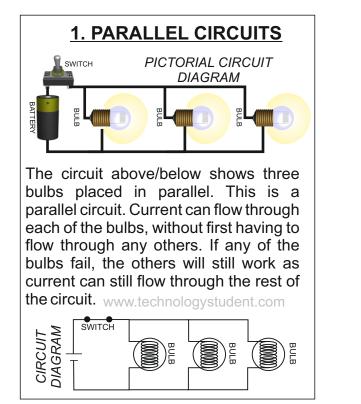
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This exercise can be printed and used by teachers and students. It is recommended that you view the website (www.technologystudent.com) before attempting the design sheet.

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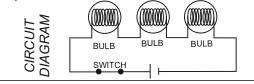
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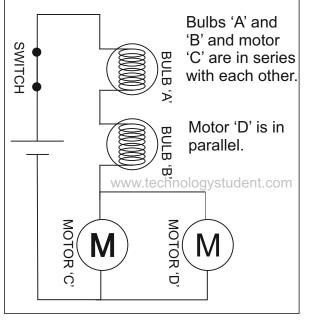
2. SERIES CIRCUITS PICTORIAL CIRCUIT DIAGRAM BULB'A BULB'A BULB'A BULB'A BULB'B' BULB'C BATTERY WWW.technologystudent.com

The circuit above shows three bulbs placed in series. This is a called a series circuit. Current flows through each of the bulbs in sequence. The more bulbs that are added, the less bright they shine. This is due to the resistance in each bulb. If any of the bulbs fail, current cannot flow through the circuit and the other components will not work.



3. SERIES / PARALLEL CIRCUITS

The circuit seen below has components arranged in parallel and series.



1. Describe / explain two advantages of using bulbs / LEDs in parallel.

4 marks

2. In a series circuit, composed of 2 bulbs / LEDs and a battery, what could happen if another bulb / LED is added?

2 marks

3. If motor 'D' fails, in the circuit seen drawn on revision card 3, will the entire circuit fail? Underline the correct answer. YES / NO 1 marks