

# ELECTRONICS - CIRCUITS IN PARALLEL

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On behalf of The World Association of Technology Teachers

## W.A.T.T.



World Association of Technology Teachers

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# CIRCUITS IN PARALLEL

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1. The circuit seen below has its components arranged opposite each other. What is this type of circuit known as?

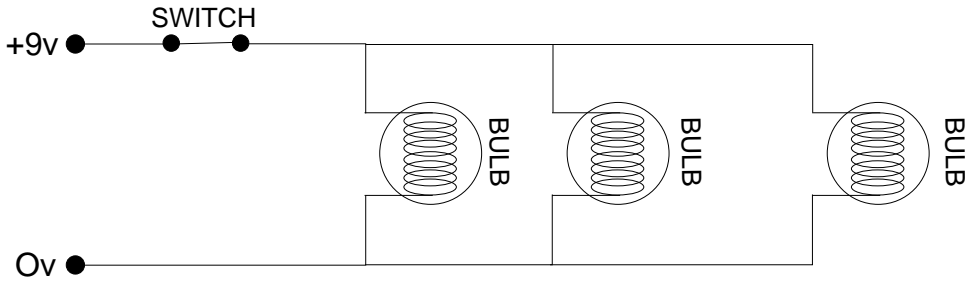
Underline the correct answer.

BACK TO BACK CIRCUIT

STAGE BY STAGE

PARALLEL CIRCUIT

SERIES CIRCUIT



Explain your choice of answer.

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2. Add another bulb to the circuit shown above - the completed circuit should have four bulbs.

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3. When a fourth bulb is added, what will happen to the brightness of all the bulbs? Explain your answer.

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4. What will happen to the circuit if one of the bulbs fails?

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5. Draw the same circuit as seen above but this time use LEDs in place of bulbs. (You may need to include resistors).

6. Write two advantages of using LEDs instead of filament bulbs?

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