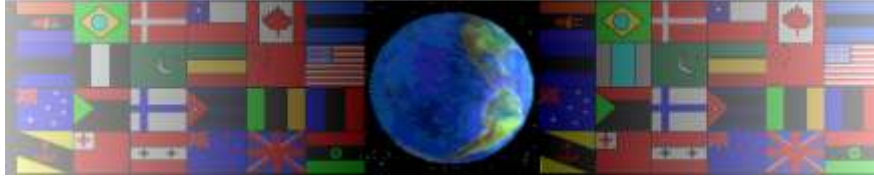


# ELECTRONICS - CIRCUITS IN SERIES

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On behalf of The World Association of Technology Teachers

## W.A.T.T.



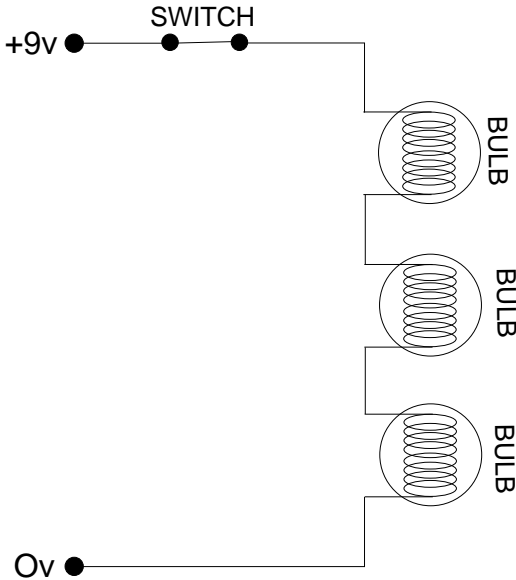
World Association of Technology Teachers

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

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# CIRCUITS IN SERIES

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The circuit seen opposite has its components arranged one after another. What is this type of circuit known as? Underline the correct answer.

FOLLOW ON CIRCUIT

STAGE BY STAGE

PARALLEL CIRCUIT

SERIES CIRCUIT

Explain your choice of answer.

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If another bulb is added what will happen to the intensity/brightness of each bulb?

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

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Name the type of switch you would use in the circuit and explain your choice.

SWITCH NAME:

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In the space below sketch your choice of switch and draw its symbol.

SWITCH SKETCH

SWITCH SYMBOL

Design a simple series circuit using circuit simulation software such as YENKA Technology. Test the circuit and convert it to a PCB, on screen,