

CAPACITORS

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On behalf of The World Association of Technology Teachers

W.A.T.T.



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CAPACITORS

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1. What are the main functions capacitors in simple circuits?

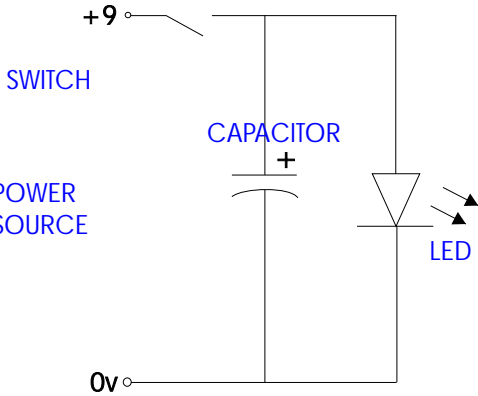
2. Capacitors are often used in combination with a resistor. What type of circuit is this normally? Underline the correct answer.

LIGHT

TIMER

COUNTER

SENSOR



3. The circuit opposite is composed of a power source, switch, capacitor and LED.

3a. What happens when the switch is closed? Power on.

3b. What happens for a short time when the switch is opened? Power off.

3c. What happens if a resistor is added to the circuit

4. In the space below draw three symbols that represent capacitors.

SYMBOL 1

SYMBOL 2

SYMBOL 3

5. What are the differences between an ELECTROLYTIC and NON-ELECTROLYTIC capacitors?

5. Sketch a typical electrolytic capacitor and a typical non-electrolytic capacitor.

ELECTROLYTIC

NON-ELECTROLYTIC