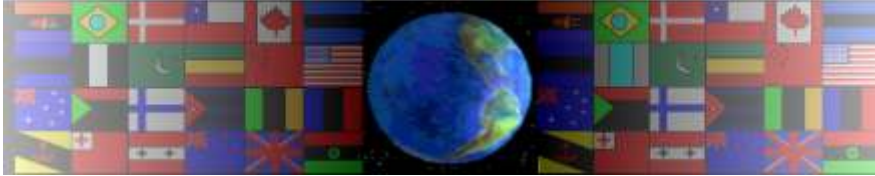


THE 555 IC

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On behalf of The World Association of Technology Teachers

W.A.T.T.



World Association of Technology Teachers

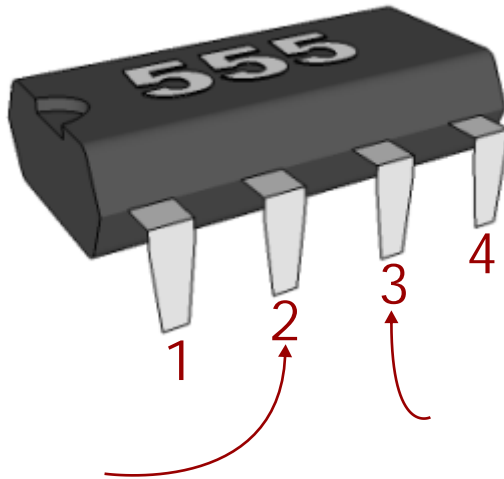
This exercise can be printed and used by teachers and students. It is recommended that you view the website (www.technologystudent.com) before attempting the design sheet .

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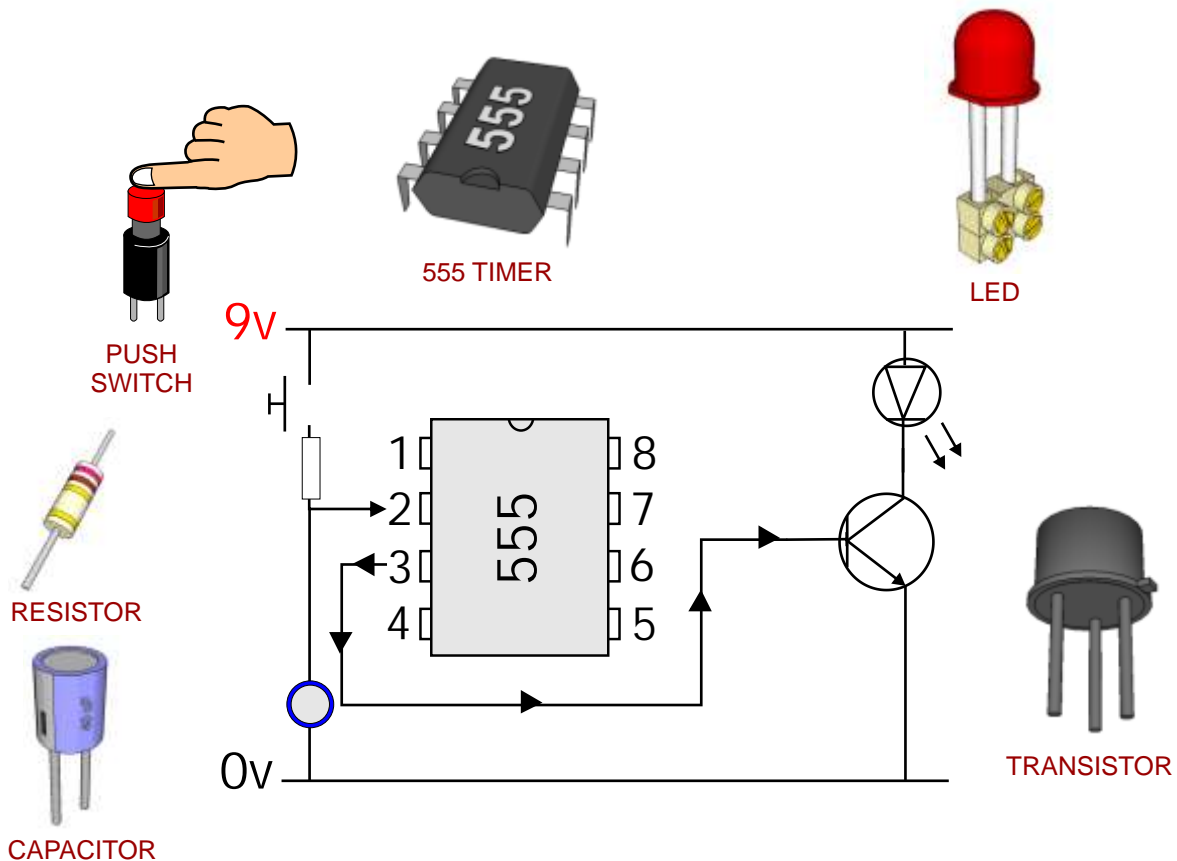
THE 555 INTEGRATED CIRCUIT

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A 555 Integrated Circuit is seen below. Pins 2 and 3 have specific functions. Explain each function.



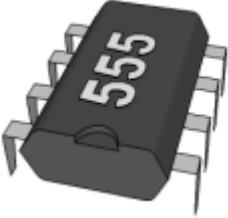



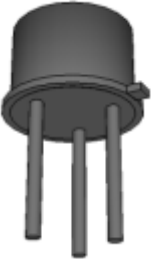
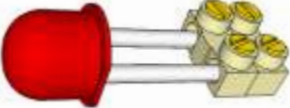
The circuit below is a simplified version of a 555 circuit. It is a timer. When the switch is pressed the circuit starts to work. Explain how the circuit works.



THE 555 INTEGRATED CIRCUIT

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Most of the components for a 555 circuit are shown below. Explain the function / purpose for each component in a timer circuit.

COMPONENT	FUNCTION
 <p>555 TIMER</p>	
 <p>PUSH SWITCH</p>	
 <p>RESISTOR</p>	
 <p>CAPACITOR</p>	
 <p>TRANSISTOR</p>	
 <p>LED</p>	