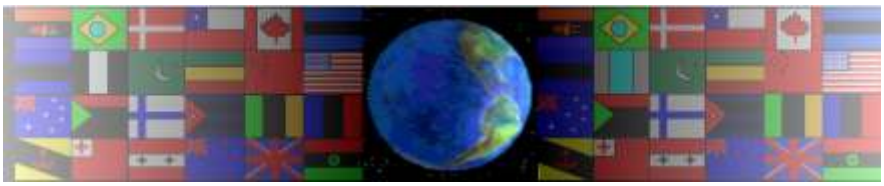
THE PICAXE 18 MICROCONTROLLER AND DRIVER CHIP

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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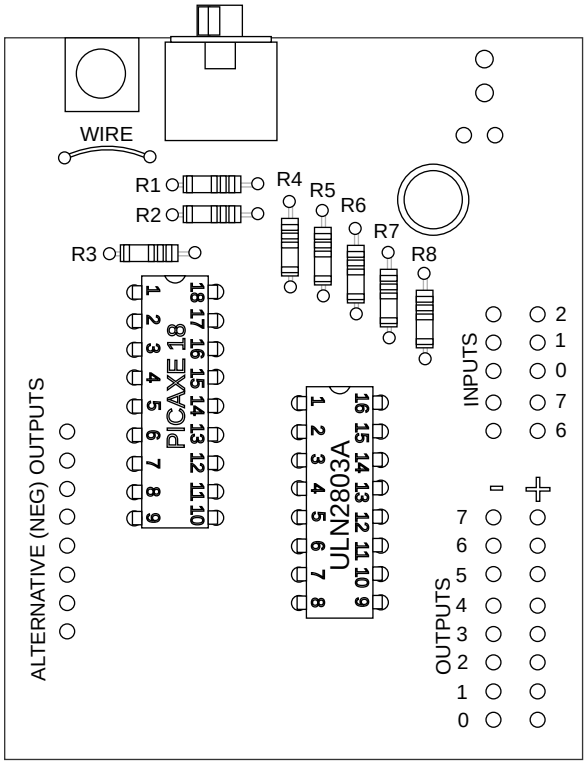
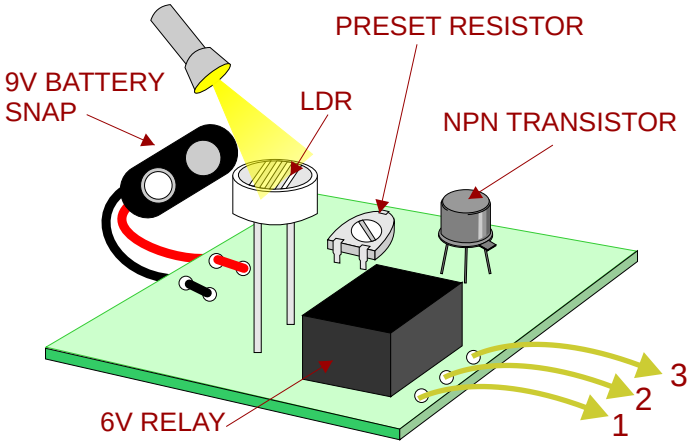
1. Why is a ULM2803A driver IC sometimes used in combination with a PICAXE-18 microcontroller?

2. The layout to a PICAXE-18 microcontroller circuit is shown below.

Add sketches of the following input components: Push switch and toggle switch.
Add sketches of the following output components: Solenoid, motor, two LEDs.
Add a suitable power supply.

Use a red and black pencil to draw the positive and negative wires/connections.





3. Describe how the digital light/dark sensor, shown opposite, can be connected to a PICAXE-18 microcontroller circuit.