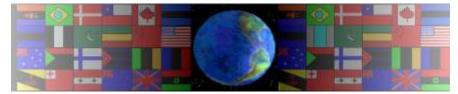
POTENTIOMETERS / VARIABLE RESISTORS

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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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POTENTIOMETERS / VARIABLE RESISTORS



POTENTIOMETER

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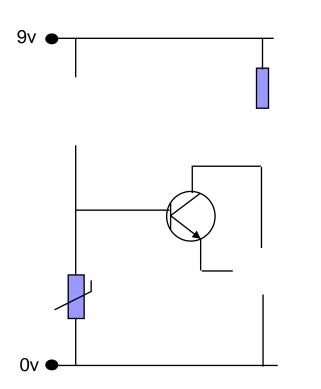
1. A typical potentiometer / variable resistor is drawn on the left.

On the right, draw the electronic symbol that represents this important component.

SYMBOL

2. Why are potentiometers / variable resistors used in temperature sensing circuits?

3. What is the range of resistance of a 100k potentiometer / variable resistor?



4. An incomplete temperature sensing circuit is seen opposite. The components are named below.

Complete the circuit diagram. Write the correct component name alongside each symbol, in the circuit.

LED TRANSISTORS THERMISTOR PRESET RESISTOR

5. Describe how the temperature sensing circuit (seen above) works. Explain the role of the potentiometer / variable resistor.

6. How are potentiometers / variable resistors very similar to preset resistors?