

Electronics Exercise

1. Explain what function a resistor performs in a circuit.
2. What is the unit used to measure resistance?
3. How is the value of the resistor normally shown on the resistor?
4. Show the circuit symbol used for resistance.
5. Name the type of resistor that can be used for sensing light levels, explain how light affects resistance.
6. Name the type of resistor that can be used for sensing temperature levels, explain how temperature affects temperature.
7. Show the circuit symbols for both.
8. Explain why a transistor may be used in a circuit?
9. Name the 2 types of transistor.
10. Show the circuit symbol for a bipolar, NPN transistor (resistor is a typing error!!)
11. Why must care be taken when connecting a transistor? Name a component you have used which you had to take care when connecting.
12. Why is a base resistor used with a transistor?
13. Suggest a suitable value.
14. At what voltage will a transistor typically turn on?