

I-V Graphs & Circuit Component Questions for GCSE Physics

1. What is the circuit symbol used for a resistor?

2. What does an arrow through the resistor symbol represent?

3. What does LDR stand for?

4. How does the resistance of an LDR change when light intensity increases?

5. How does the resistance of a thermistor change as temperature increases?

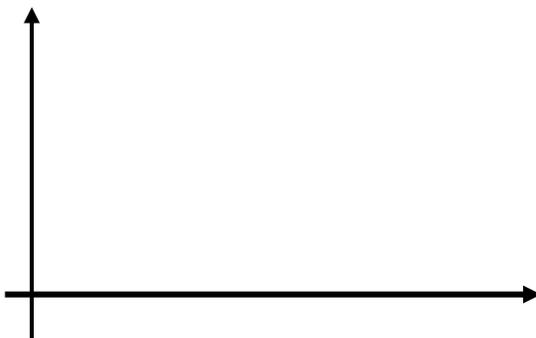
6. What does Ohm's law state in words?

7. Label the axis and sketch the I-V graph for an ohmic conductor below.



8. Sketch the circuit used to obtain the results for an I-V graph for a filament lamp.

9. Sketch the I-V graph for a filament lamp on the axis below?

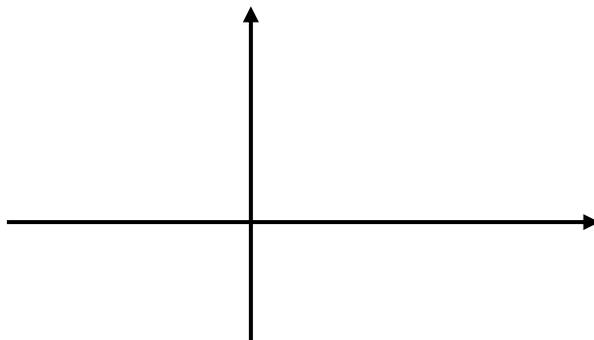


10. Describe the relationship between the current and voltage for a filament lamp?

11. What alternative piece of equipment could be used instead of a battery and variable resistor?

12. What is the function of a diode?

13. Sketch the IV graph for a diode on the axis below.



14. What is meant by the terms forward bias and reverse bias.

