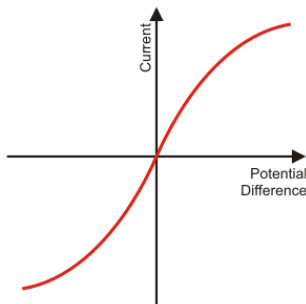
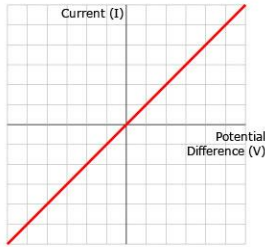


P4 Electric Circuits - Knowledge Questions

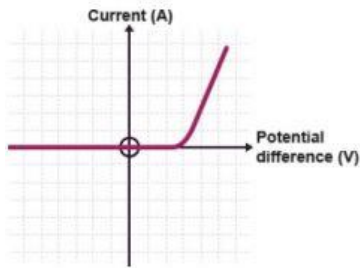
1. What is the unit of potential difference?
2. What is the unit of current?
3. What is the unit of resistance?
4. What is the unit of charge?
5. What is the unit of power?
6. What is the unit of time?
7. What is the unit of energy and work done?
8. What is the name for a circuit with only one branch?
9. What is the name for a circuit with 2 or more branches?
10. What is the symbol for a bulb?
11. What is the symbol for a resistor?
12. What is the symbol for a cell?
13. What is the symbol for a battery?
14. What is the symbol for a diode?
15. What is the symbol for a variable resistor?
16. What is the symbol for a fuse?
17. What is the symbol for an ammeter?
18. What is the symbol for a voltmeter?
19. What is the symbol for a Light dependent resistor (LDR)?
20. What is the symbol for a Thermistor?



21. What component does this graph show ?



22. What component does this graph show?



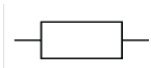
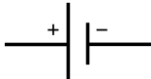
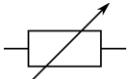
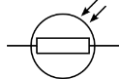
23. What component does this graph show?

24. Write the equation which links current, time and charge
25. Write the equation which links current, potential difference and resistance
26. Write the equation which links potential difference, work done and charge

Separate Physics only

1. What is the name for the buildup of stationary electric charge?
2. What force causes electrons to move from one place to another when objects rub together?
3. Do you need 2 insulators, 2 conductors or 1 of each to build up static electricity?

P4 Electric Circuits Answers

1. Volt (V)
2. Amps (A)
3. Ohm (Ω)
4. Coulomb (C)
5. Watt (W)
6. second (s)
7. Joule (J)
8. Series Circuit
9. Parallel circuit
10. 
11. 
12. 
13. 
14. 
15. 
16. 
17. 
18. 
19. 
20. 
21. Bulb/filament bulb
22. Fixed resistor
23. Diode

- 24. Charge = current x time
- 25. Potential difference = current x resistance
- 26. Potential difference = work done ÷ charge

Separate only

- 1. Static electricity
- 2. Friction
- 3. 2 insulators