



Electricity - Quick fire questions

This worksheet is fully supported by a video tutorial; <https://youtu.be/62RyyfKZoYg>

1. Draw the symbol for a cell.
2. Draw the symbol for a battery.
3. What is the difference between a battery and a cell?
4. Draw the symbol for an ammeter.
5. How must an ammeter be placed in a circuit?
6. Draw the symbol for a voltmeter.
7. How must a voltmeter be placed in a circuit?
8. Draw the symbol for a lamp.
9. Draw the symbol for a diode.
10. Draw the symbol for a resistor.
11. Draw the symbol for a LED (light emitting diodes).
12. Draw the symbol for a variable resistor.
13. Draw the symbol for a LDR (light dependent resistor).
14. Draw the symbol for a fuse.
15. Draw the symbol for a thermistor.
16. Draw the symbol for an open switch.
17. Draw the symbol for a closed switch.
18. What is difference between series and parallel circuits?
19. Define charge.
20. Define current.
21. What is equation taking charge, current and time?
22. What are the units for charge?
23. What are the units for current?
24. What are the units for time?
25. Define potential difference.
26. Define resistance.
27. What is equation linking potential difference, current and resistance?
28. What are the units of potential difference?
29. What are the units for resistance?
30. Draw the current-potential different graphs for a conductor.
31. Draw the current-potential different graphs for lamp.
32. Draw the current-potential different graphs for a diode.
33. How does resistance of a thermistor change as temperature changes?
34. How does resistance of an LDR change as light intensity changes?
35. How does current behave in a series circuit?
36. How does potential difference behave in a series circuit?
37. How does resistance behave in a series circuit?



38. How does current behave in a parallel circuit?
39. How does potential difference behave in a parallel circuit?
40. How does resistance behave in a parallel circuit?
41. What is the voltage of mains electricity in the UK?
42. What is the frequency of mains electricity in the UK?
43. What is the difference between alternating and direct current?
44. What are the three wires inside a plug?
45. What are the safety features on a plug?
46. What is equation linking power, current and potential difference?
47. What are the units for power?
48. What is the equation linking power, current and resistance?
49. What is equation linking energy, power and time?
50. What are the units for energy?
51. What are the units for time?
52. What is equation linking energy, charge and potential difference?
53. What is the National Grid?
54. What does step up transformer do?
55. What does a step down transformer do?