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Topic: Basic Electricity/Electronics

1. Electricity only moves in a(n) \_\_\_\_\_ circuit
2. closed
3. open
4. red
5. difficult
6. Rubber is a good conductor
7. True
8. False
9. An example of a conductor
10. A rubber tire
11. A glass cup
12. A wooden spoon
13. A metal sheet
14. What charge does an electron have?
15. Positive
16. Negative
17. Neutral
18. No charge
19. The number of electrons flowing is called
    1. Power
    2. Voltage
    3. Current
    4. Negativity
20. Electrons flow from the positive terminal of a battery
21. False
22. True
23. What machine converts heat into electricity?
24. Diode
25. Insulator
26. A lightbulb
27. A thermocouple
28. What color wire should never connect to switches?
29. Red
30. White
31. Black
32. Bare
33. What color wire(s) are hot?
34. Red
35. Black
36. Green
37. Both A and B
38. Resistors reduce voltages
39. True
40. False
41. What is a short circuit?
42. A circuit short in length
43. A circuit that has a short fuel source
44. A circuit that has a path that bypasses the load
45. A circuit formed by white wires.
46. A GFCI has to be installed in a location with water
47. True
48. False
49. What material both inducts and conducts?
50. Conductor
51. Semiconductor
52. Tape
53. Insulator
54. A machine that converts light into electricity
55. Lightbulb
56. The sun
57. LEDs
58. Solar cells
59. Which are the most environmentally friendly ways to produce electricity that is nonrenewable?
60. Wind
61. Solar
62. Hydro
63. All of the above

Answer Key:

1. a
2. b
3. c
4. b
5. c
6. a
7. d
8. b
9. d
10. a
11. c
12. a
13. b
14. d
15. d