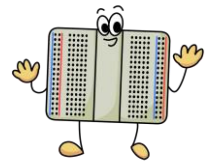


Matching-Circuit Starter Kit



1. ___ Photoresistor

a. emits red, green, or blue light when electricity flows through it. Allows electricity to flow in only one direction

2. ___ Multimeter

b. a resistor that has a knob that can be adjusted to vary the resistance

3. ___ Button Switch



c. allows electricity to flow through it on only one direction

4. ___ Breadboard

d. displays numbers or letters by lighting up a combination of light segments, based on voltage received at the pins

5. ___ 4511

e. a light sensitive resistor that changes resistance with the amount of light present

6. ___ 7 Segment Display

f. can be used like a switch allowing current to flow from collector to emitter when voltage is applied to the base

7. ___ Buzzer

g. makes a 7 Segment Display show the correct number in response to a 4-bit binary input.

8. ___ Capacitors

h. used to connect or disconnect the path of electrical flow in a circuit

9. ___ Diode



i. makes a singular buzzing sound when a voltage is applied across the leads.

10. ___ LED

j. makes a wide variety of sounds based on the electric signals provided to the leads.

11. ___ 555 Timer

k. used to measure voltage, current, and resistance

12. ___ 4017

l. can absorb energy and store it temporarily

13. ___ Transistor

m. a common tool used for creating temporary electronic prototypes and experimenting with circuit design.

14. ___ RGB LED

n. an electrical component that restricts the passage of electrical current. Colored strips show its fixed resistance value

15. ___ Wires



o. creates repeating pulses of electricity

16. ___ Resistor

p. a device that converts chemical energy contained within into electric energy

17. ___ Speaker

q. conductive metal that is wrapped in insulated material that brings electricity to various components in the circuit

18. ___ Potentiometer

r. a light emitting diode that allows electricity to flow in only one direction

19. ___ Battery

s. counts electrical pulses from 1 to 10

