Circuit with Push Button Switch

FOLD

BATTERY

COIN CELL

+

−

LEDs ("ell-ee-dees")

LEDs (Light-Emitting Diodes) are simple, low-cost semiconductor devices that produce light when voltage is applied in the correct polarity.
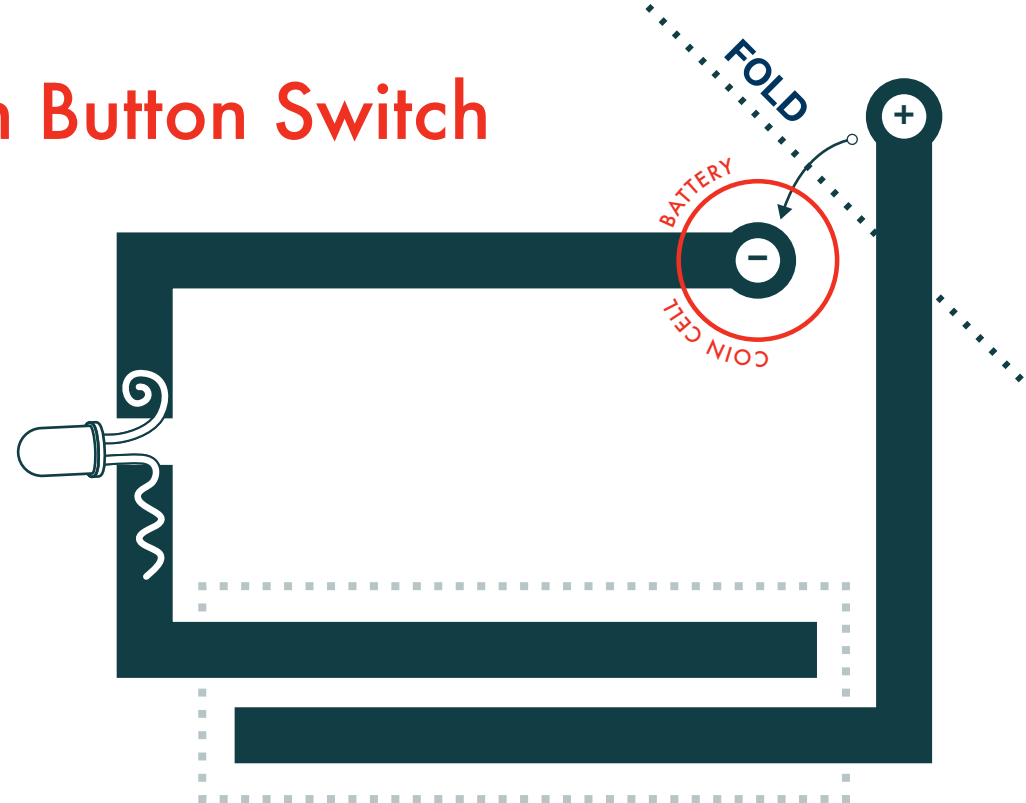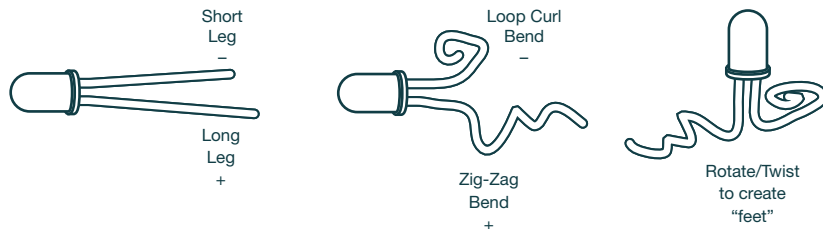
Because polarity matters, you'll notice that one leg of an LED is slightly longer than the other. The long leg is the positive (+) leg. Looking closely at the bulb end of the LED, you will also notice that there is a flat edge on the bulb. This is the negative or ground side.

Want to learn more? Check out our tutorials on **learn.sparkfun.com: https://learn.sparkfun.com/tutorials/light-emitting-diodes-leds**

(+)   (−)   Standard schematic symbol for an LED

Bending things helps keep your circuit straight

Short Leg −

Long Leg +

Loop Curl Bend −

Zig-Zag Bend +

Rotate/Twist to create "feet"

Push Button

Top Layer

Middle Layer

Basic LED Circuit

FOLD

BATTERY

COIN CELL

+

−
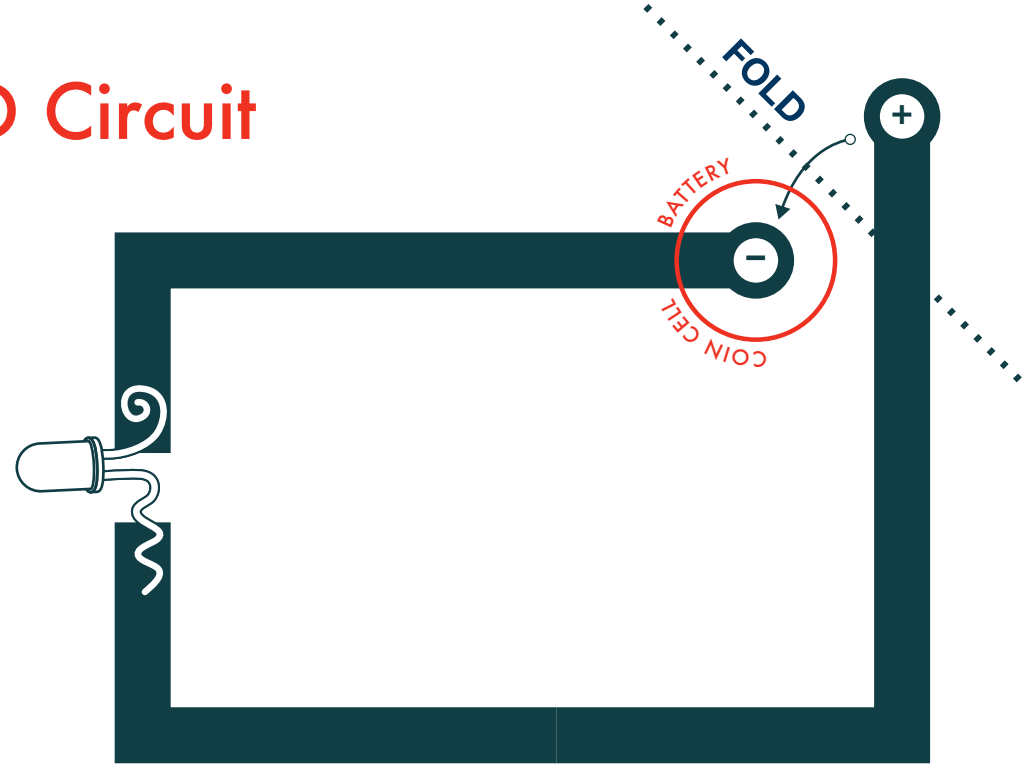
+

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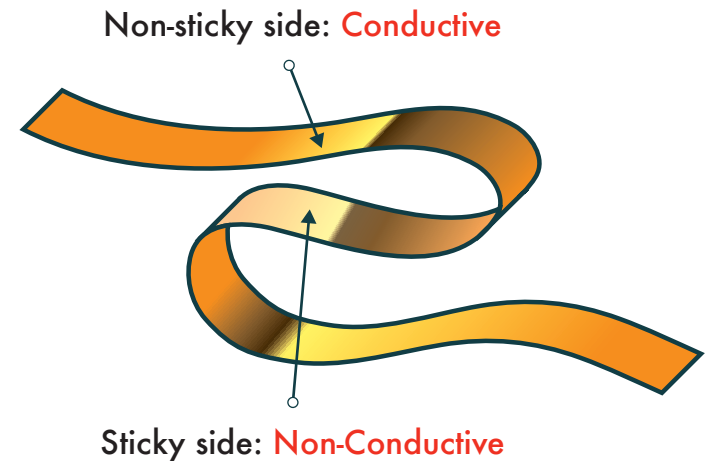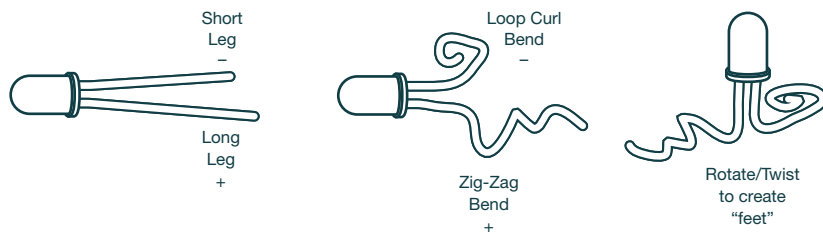**https://learn.sparkfun.com/tutorials/light-emitting-diodes-leds**

(+)   (−)   Standard schematic symbol for an LED

Bending things helps keep your circuit straight

Short Leg −
Long Leg +

Loop Curl Bend −
Zig-Zag Bend +

Rotate/Twist to create "feet"

Conductive Copper Tape

Non-sticky side: Conductive

Sticky side: Non-Conductive

Simple Switch

FOLD

BATTERY

COIN CELL

+

−

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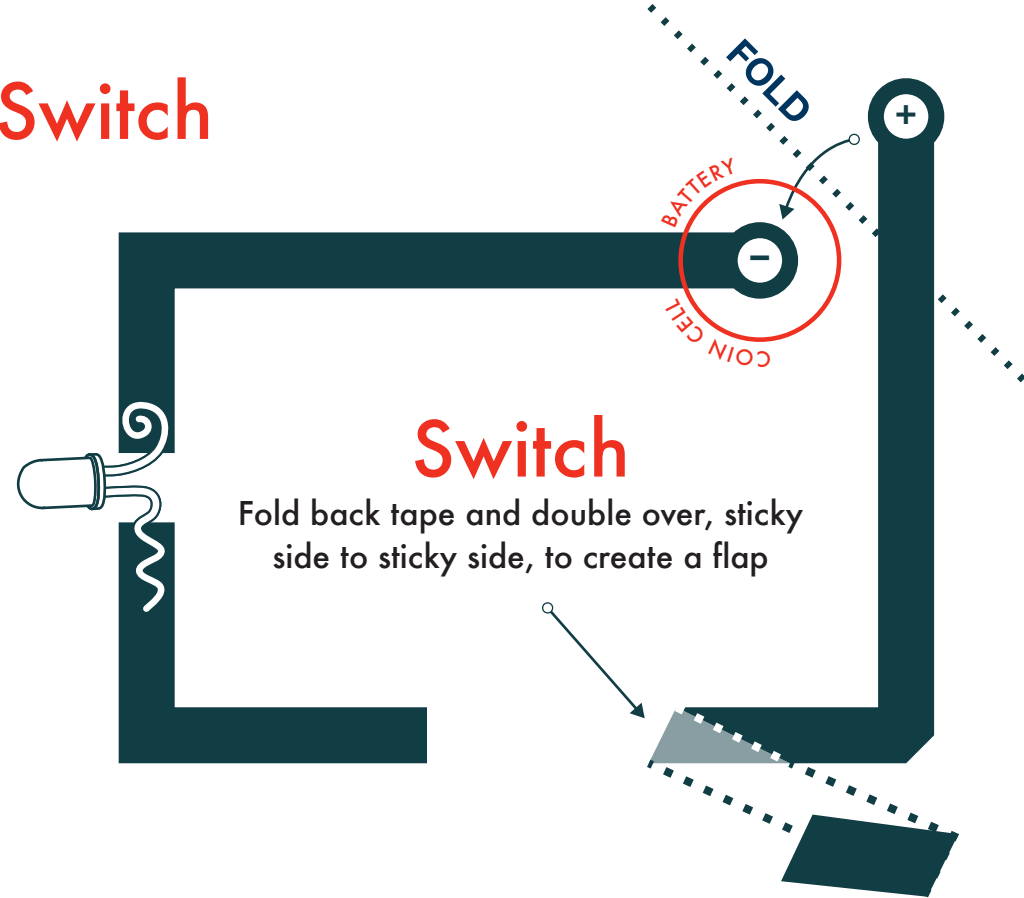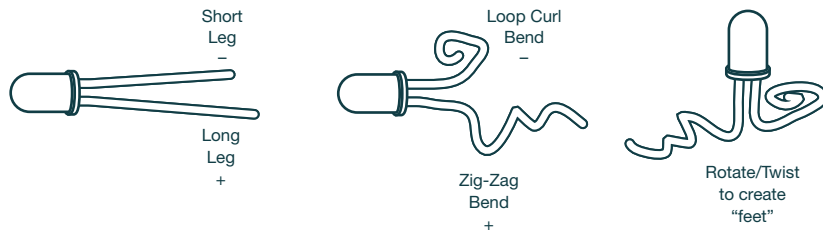
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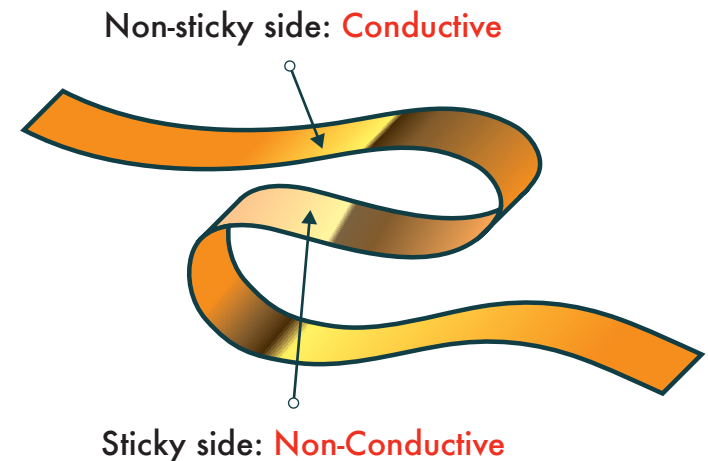
(+) (−) Standard schematic symbol for an LED

Switch

Fold back tape and double over, sticky side to sticky side, to create a flap

Bending things helps keep your circuit straight

Short Leg −

Long Leg +

Loop Curl Bend −

Zig-Zag Bend +

Rotate/Twist to create "feet"

Conductive Copper Tape

Non-sticky side: Conductive

Sticky side: Non-Conductive

Circuit with Pull-Tab Switch

FOLD

BATTERY

COIN CELL

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