

# squishy circuits

invent • create • explore

## QUICK START GUIDE



## KNOW YOUR COMPONENTS

Kit contents vary. For all components and unlimited possibilities, get the deluxe kit.



Welcome to Squishy Circuits! Let's start from the beginning ...

## KNOW YOUR TERMINOLOGY

**CIRCUIT:** The path in which electrical currents flow. A completed circuit takes the form of a circle.

**SHORT CIRCUIT:** An electrical circuit in which a path of very low resistance has been created.

**CONDUCTOR:** A material or object that allows electrical current to flow through it.

**INSULATOR:** A material or object that does not allow electrical current to easily flow through it.

**LED:** A light-emitting diode or LED is a semiconductor device that emits visible light when an electric current passes through it.

**TERMINAL:** A conductive surface that provides an electrical connection point.

For tutorials, information & support, visit our website: [SquishyCircuits.com](http://SquishyCircuits.com)

Or download the app for fun on the go!



### ⚠ WARNING

**CHOKING HAZARD** - Small parts: not for children under 3 years.

Contains sharp edges on LED terminals.

Ages 8 and up. Adult supervision recommended.

Batteries not included. Only use new, alkaline AA, batteries in the battery holder. When not in use, turn the battery pack off and remove the batteries.

Do not allow the battery terminals to touch during use, either directly or through conductive materials other than Squishy Circuits Dough.

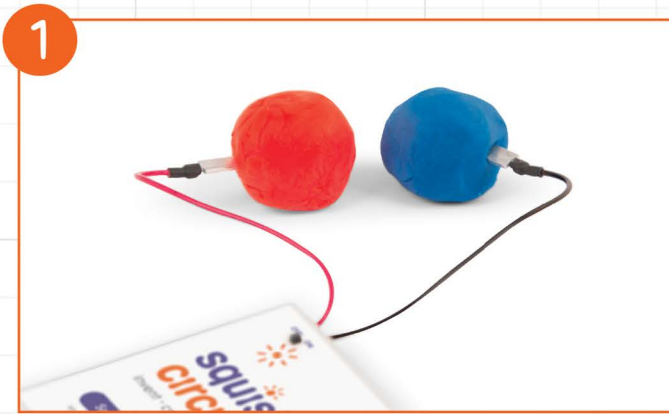
Dough conforms to ASTM D-4236 and contains Gluten.

To reduce corrosion, wipe the materials off after use.

Squishy Circuits Store LLC, Anoka, MN, USA  
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# CREATE A CIRCUIT!

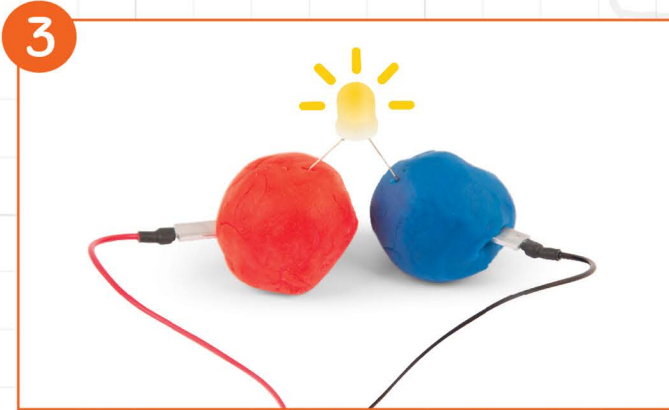
Let's investigate a simple circuit using Squishy Circuits.  
For more projects and tutorials visit us online at [SquishyCircuits.com/projects!](https://squishycircuits.com/projects/)



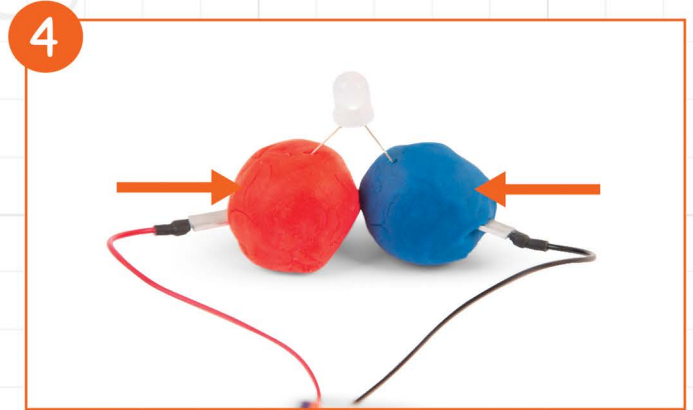
1 Insert 4 AA batteries into the battery holder and turn the switch to 'ON'. Take two pieces of conductive dough and put one battery terminal into each.



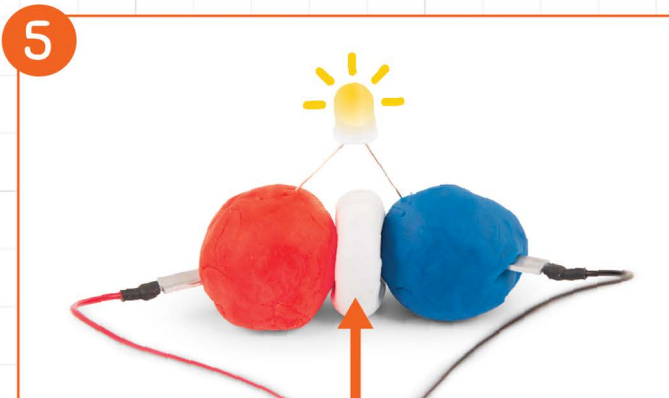
2 Find a LED and separate the terminals apart. Notice one is longer than the other.



3 Create a circuit by placing each terminal of the LED in the conductive dough pieces. The longer LED terminal should go in the dough with the red battery pack wire.



4 To short circuit your connection, push the dough pieces together. Notice the LED dims or goes out because the electricity is taking the path of least resistance, which is directly through the dough.



5 Optional: To prevent short circuits, and keep the electricity flowing through the LED, use the insulating dough to keep the conductive dough from touching.

## GET CREATIVE!



Explore fun projects to create by visiting [squishycircuits.com/projects](https://squishycircuits.com/projects/). You can also **download our app** for fun on the go!