



Squishy Circuits

Included in this Mixer are three Squishy Circuits kits. The goal of the project is to design tools and activities which allow kids of all ages to create circuits and explore electronics using play dough.

Every kit includes:

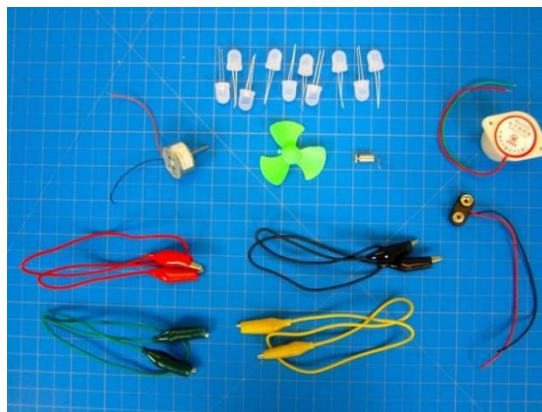
9V Battery Holder

4 Multi-colored Alligator Clips

10 Multi-colored Jumbo LEDs

Motor w/ Fan

Small Vibrating Motor



You do have to make the dough prior to the program. See the recipe card for details.

These activities are designed such that the dough is used to connect components. Never connect components, such as LEDs, directly to the battery pack, as running too much current through components can damage them, possibly causing them to overheat or pop. Follow standard electricity safety considerations. Please see the University of St. Thomas's Squishy Circuits page for more project ideas and details.

<http://courseweb.stthomas.edu/apthomas/SquishyCircuits/index.htm>

<http://courseweb.stthomas.edu/apthomas/SquishyCircuits/buildingCircuits.htm>

<http://courseweb.stthomas.edu/apthomas/SquishyCircuits/videos2.htm>

CONDUCTIVE DOUGH

1 Cup Water
1 1/2 Cups Flour
1/4 Cup Salt
3 Tbsp. Cream of Tartar
or 9 Tbps Lemon Juice
1 Tbsp. Vegetable Oil
Food Coloring (optional)

**STEP 1: Mix Ingredients Holding Back
1/2 Cup of Flour**

**STEP 2: Stir Continuously over Medium
Heat until a Dough Ball Forms**

**STEP 3: Remove from Heat and Knead in
Additional Flour until a Desired
Consistency is Formed**



Expanding Creativity
Play • Invent • Learn

**These recipes are provided courtesy of the
University of St. Thomas' Squishy Circuits Program.
Before making the dough, view the full directions and
instructional videos by visiting their site:
<http://www.StThomas.edu/SquishyCircuits>**

INSULATING DOUGH

1 1/2 Cups Flour
1/2 Cup Sugar
3 Tbsp. Vegetable Oil
1/2 Cup Deionized
(or Distilled) Water

**STEP 1: Mix Solid Ingredients and Oil
Holding Back 1/2 cup of Flour**

**STEP 2: Continue to Add Small Amounts
of Water, Kneading Continuously**

**STEP 3: After a Dough Ball Can be
Formed, Knead Flour into the
Dough to Remove Stickiness**

Squishy Circuits Store LLC - www.SquishyCircuitsStore.com
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