



TECHSTYLES

Kit Information & Instructions

LilyPad

The LilyPad TechStyles kit is a great way to get started with e-textile clothing. This kit guides you through the process of using conductive thread and LilyPad LEDs to create an electronic work of art. When you're done, you'll have a greater understanding of the basic skills needed to create your own e-textiles.

- Kit includes:**
- 1 x battery holder
 - 1 x ON/OFF switch
 - 1 x fabric swatch
 - 1 x conductive thread
 - 3 x LEDs
 - 5 x needles
 - 1 x battery

Additional tool needed: • Scissors

INSTRUCTIONS KEY:



Steps highlighted with a warning triangle represent a polarized component. Pay special attention to the component's markings indicating how to place it on the swatch.



The scissor symbol is used throughout the instructions to indicate that a particular step requires you to tie off the section you just stitched, cut the thread, and re-knot the thread before continuing to the next hole being stitched.

x3

Each part has holes so you can sew it down to the swatch. Make sure to stitch 3 times around each hole to ensure your kit will stay together for a long time.



1 Needle + Thread



Thread your needle. Then knot the end of your thread.



2 Battery Holder ⚠

Stitch each positive hole down. The holes should be connected by the thread, but only under the fabric.



3 ON / OFF



Stitch from the positive hole on the Battery Holder to a hole of the ON/OFF switch and sew it in place.



4 Needle + Thread



Knot and clip your thread. Re-thread your needle and tie a knot at the end.



FABRIC SWATCH

Stitch down the other end of the switch. Ensure there is no thread connecting the two ends of the switch.



5 ON / OFF



Continue sewing from the switch to stitch down each positive side of your LEDs.



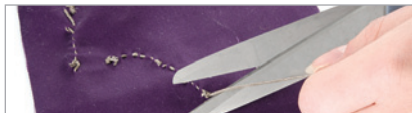
6 LED x 3 ⚠



✂ Knot and clip your thread. Re-thread your needle and tie a knot at the end.



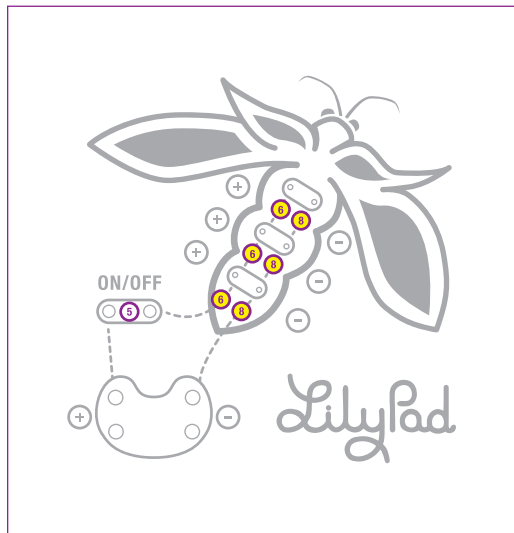
7 Needle + Thread



Sew down the negative trace of your LEDs and stitch each negative hole of your LEDs down along the way.



8 LED x 3 ⚠



FABRIC SWATCH



9 Battery Holder ⚠



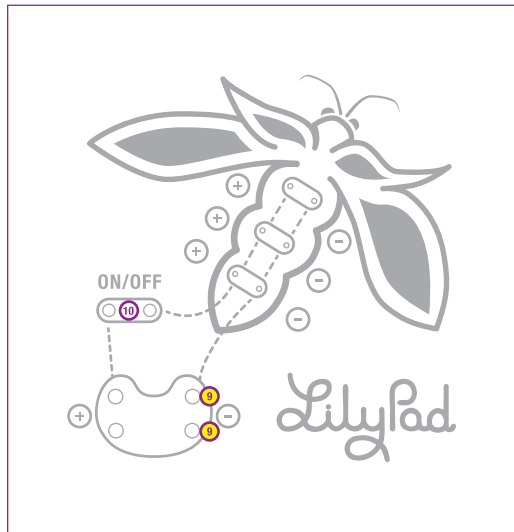
Continue the stitch to the end. The holes should be connected by the thread, but only under the fabric.



Insert your coin cell battery and turn the switch to 'ON.'
Your patch should light up!



10 ON / OFF



Learning More

LilyPad E-Sewing Kit

The E-sewing kit contains everything you'll need to apply what you've learned here to embellish anything you own! Experiment with multicolored lights, switches, and buttons.

LilyPad Arduino Main Board and The LilyPad Simple Board

The LilyPad Arduino Main Board and The LilyPad Simple Board will let you begin programming your projects - create flashing patterns or start adding interactive sensors!

LilyPad Temperature Sensor, Light Sensor, and Accelerometer

The LilyPad Temperature Sensor, Light Sensor, and Accelerometer are great ways to make your project more interactive. Use these sensors with the Main Board and the Simple Board to create projects that react to light, temperature, and movement!

LilyPad Buzzer and Vibe Board

The LilyPad Buzzer and Vibe Board are fun ways to make your project output more than light. Combine these boards with the Main Board and Simple Board to begin creating garments that generate sound and movement!

