MATERIAL'S LIST
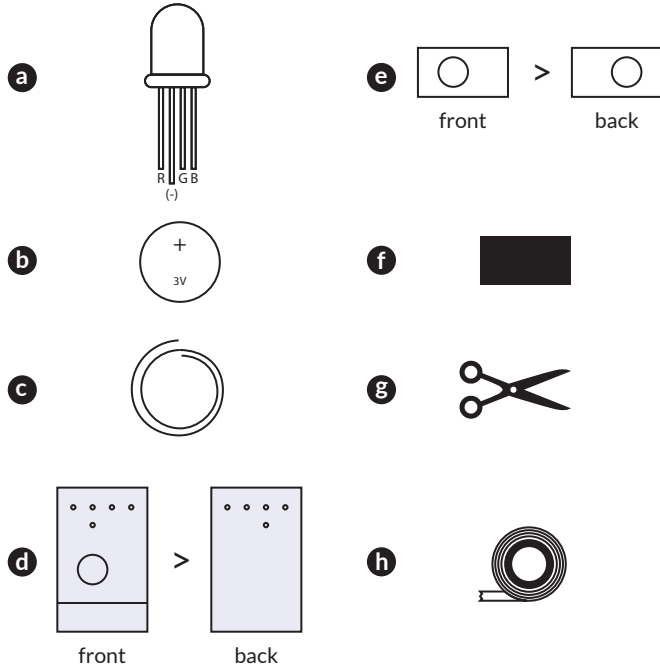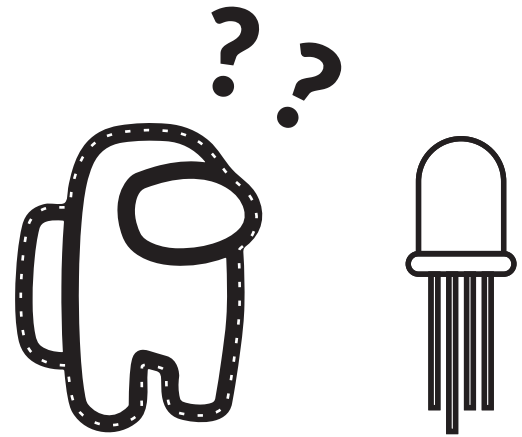
a RGB LED

b Battery

c Conductive tape

d Goma Eva (50 x 80 mm)

e Goma Eva (50 x 20 mm)

f Velostat (50 x 20mm)

g Scissors

h Adhesive tape

a

R G B
(-)

b

+
3V

c

d

front > back

e

front > back
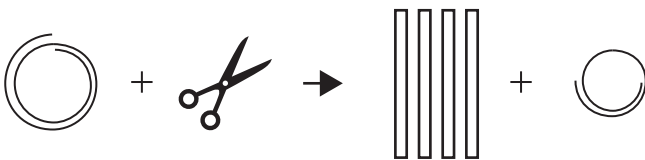
f

g

h

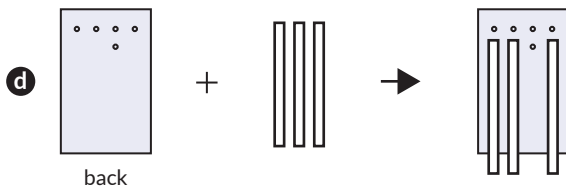# COLOR COMPOSITION + ELECTRONICS

Get the LED to shine in you preferred color, & create your textile character.
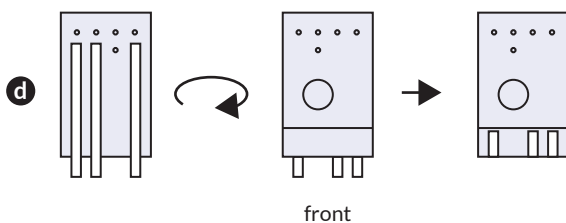
Fab Lab Leon
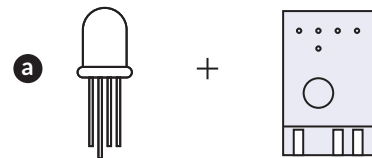
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1. Cut 4 pieces of 8cm of conductive tape. **c**

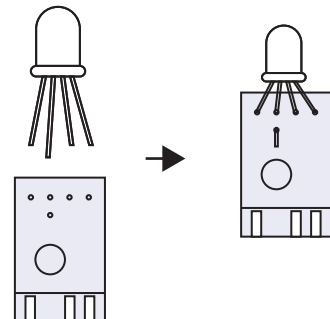**2.** Paste 3 of them on the back of the Goma Eva. Do not cut the piece of tape that sticks out.

d

back

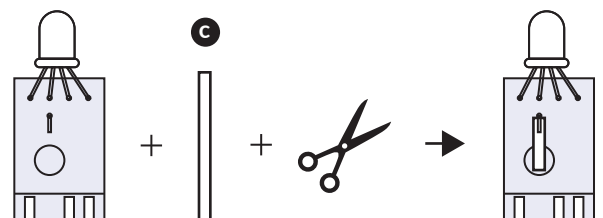Fold the sticking out tape to the front part. Cut the tape if it goes beyond the line.

d

front

3. Align the longest leg in the row with 2 holes, and insert the LED in the Goma Eva, as shown above on Fig. 4.
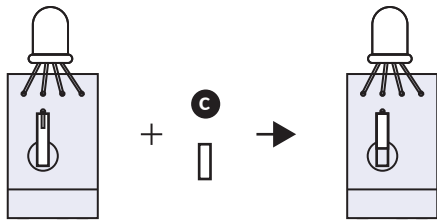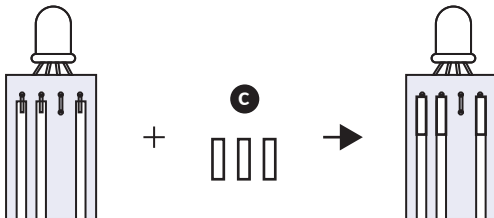
a

4.

5. Paste the 4th piece of conductive tape under the longest leg, as shown above.

c

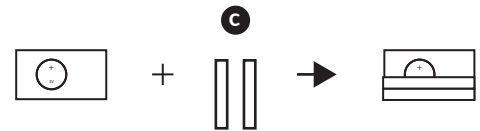**6.** Secure the leg on the track with another piece of tape on top of it.

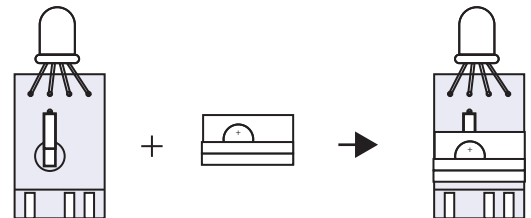**7.** Repeat this process for each leg of the LED.

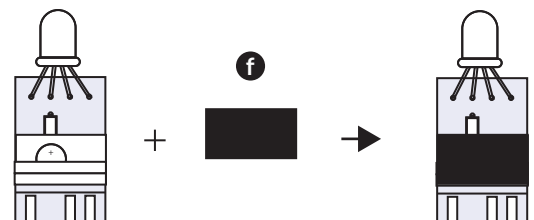**8.** Place the battery in the piece of Goma Eva, the (+) has to be facing up.

delante

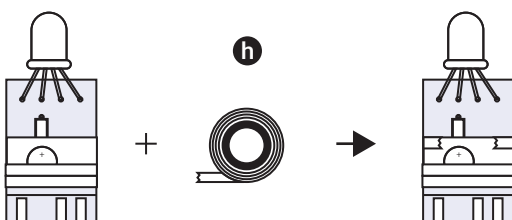**9.** Cut & paste 2 strips of conductive tape, of 5cm, at the bottom of the Goma Eva rectangle.

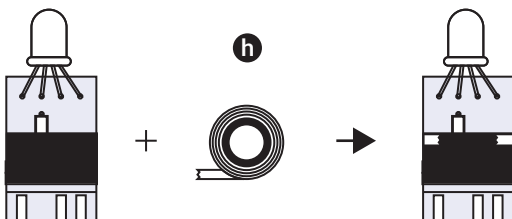**10.** Place the Goma Eva battery holder on the circuit, as indicated on the picture.

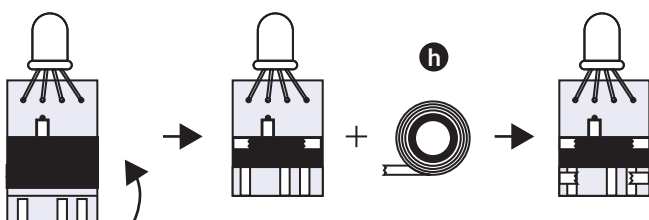**11.** Place the piece of velostat on the battery.
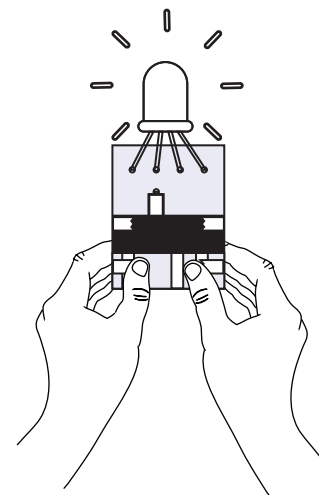
12. Secure the battery holder with adhesive tape.

13. Repeat this operation to secure the Velostat.

14. Fold the bottom part on the battery holder, attach it loosely with adhesive tape. The LED should turn off if no pressure is applied.

15. Press each track of the circuit and observe how the LED colors are changing.

● Turquoise color is composed of blu and green. If we press these two tracks at the same time, we can change the hue of the color.

● The Velostat allows us to change the intensity of each color, by pressing it more or less.