Safety rules & tips

- Keep the batteries protected until they are connected
- Be careful with the LED pins: they are sharp and can hurt
- Wash your hands after the activity
- Textile conductive thread is much better than copper tape
- For the younger kids and short time it is better to pre cut the pieces of conductive thread
- Scissors for kids are suitable for this activity. Left handed scissors are welcome





Materials & Tools

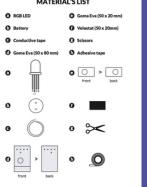
Materials:

- 1- Goma Eva / Felt (50x80mm)
- 2- Goma Eva / Felt (50x20mm)
- 3- RGB LED 10 mm (common cathode)
- 4- Velostat (50x20mm)
- 5- 3V Battery
- 6- Conductive tape (preferable textil)

Tools:

- Scissors
- Adhesive tape





RGB Monster

Step by step instructions

1: Cut 4 pieces of 8cm of conductive tape.



- 2: Paste 3 of them on the back side of the Goma Eva (50x80mm).
 - Do not cut the tape that sticks out.



• Fold the tape that sticks out to the front part. Cut the tape if it goes beyond the line.



3: Align the longest leg of the RGB LED in the row with two holes, insert the LED in the Goma Eva, as shown in the schamatics below:



4: Paste the fourth piece of conductive tape under the longest leg, as shown below:



5: Secure the leg on the track with another piece of tape on top of it.



6: Repeat this process for each leg of the LED.



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



8: Cut & paste 2 strips of conductive tape, of 5cm each, at the bottom of the Goma Eva rectangle.



9: Place the Goma Eva battery holder on the circuit, as indicated on the schematics.



10: Place the piece of Velostat on the battery. Test your circuit!



11: Secure the battery holder on the Goma Eva with adhesive tape.



12: Repeat this operation to secure the Velostat rectangle.



13: Fold the bottom part on the battery holder, attach it loosely with adhesive tape. The LED should remained off is no pressure is applied.



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