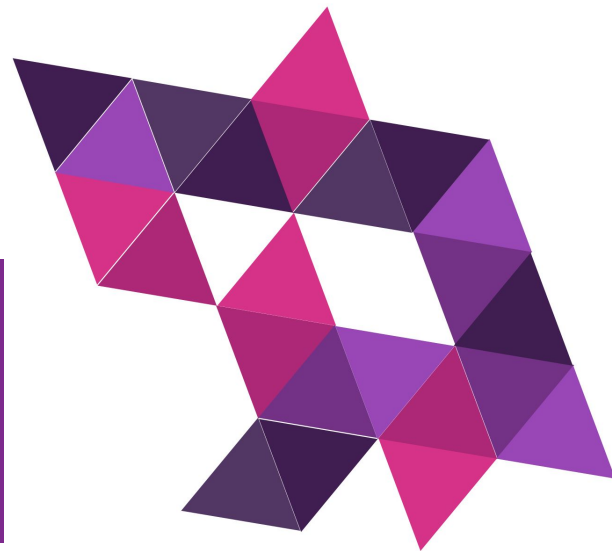




Know it all



Co-funded by the
Erasmus+ Programme
of the European Union

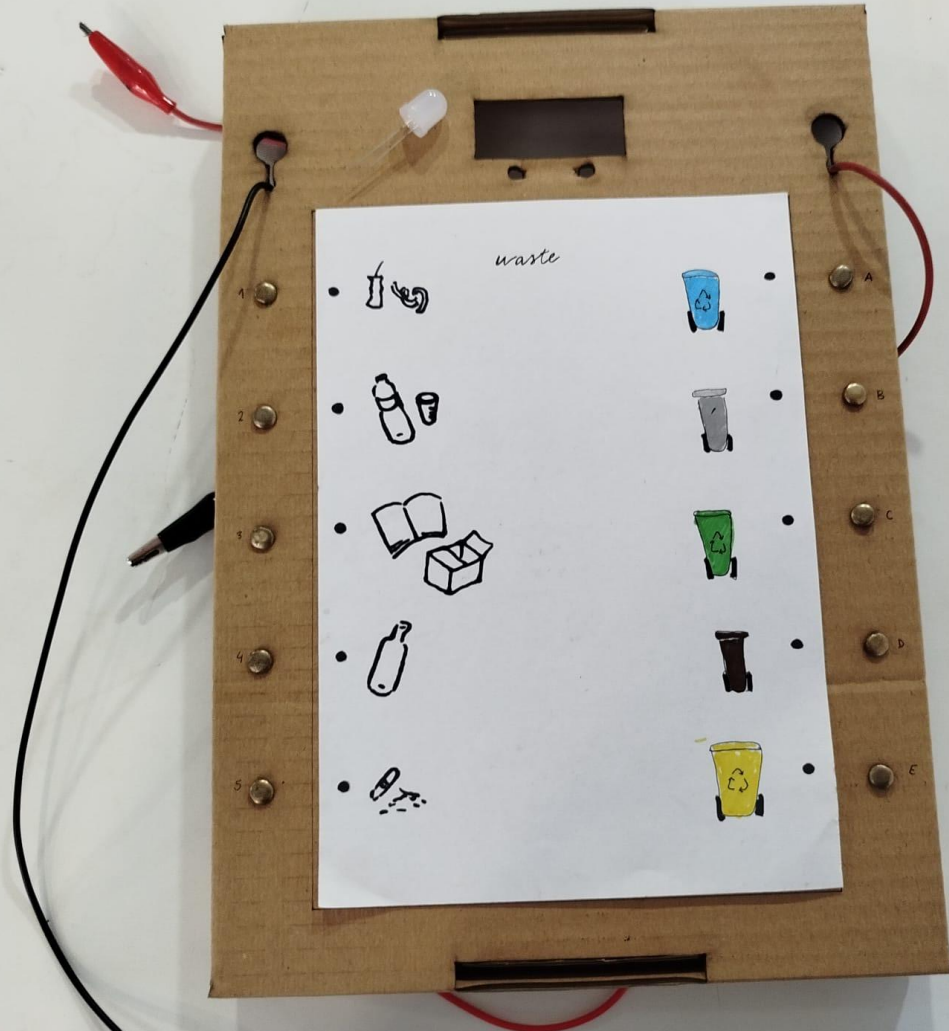


What are we going to learn?

- Using technology to create new dynamics in the classroom
- Building in 3D from **laser cutting** 2D
- Learning the basics of **electric circuits**
- Laser cutting** with existing files
- Using canva.com



Laser cutting, 3D printing and simple electronics



Material

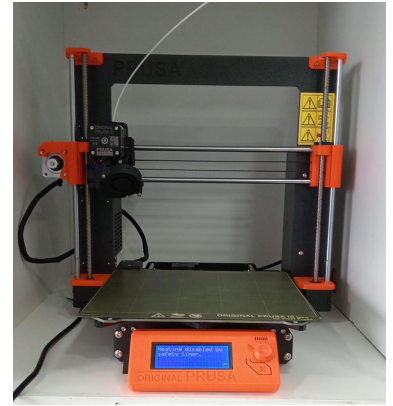
Cardboard (reused)



Paper A5



Laser cutter



3D Printer

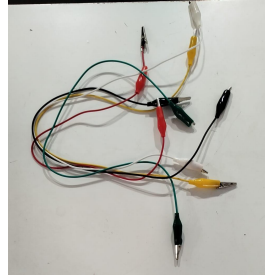


Printer

Material



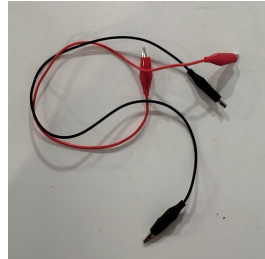
Cut model



5 crocodile
clips of
various
colors

[Board laser cutting file A4](#)

+



2 crocodile
clips (1 black
+ 1 red)

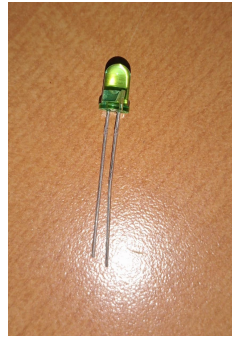
Model
question sheet

Material

10 attaches



Feltro pens

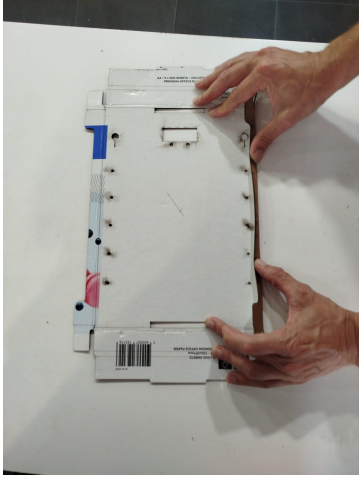


1 Led green 10mm



1 battery 3v

Building of the board



1

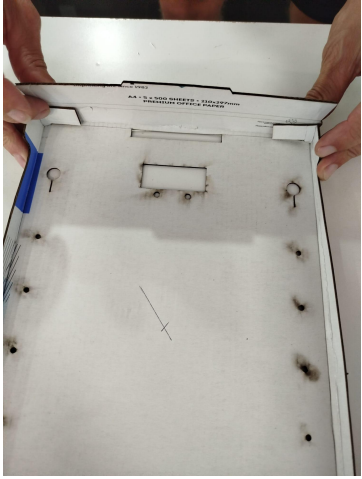


2

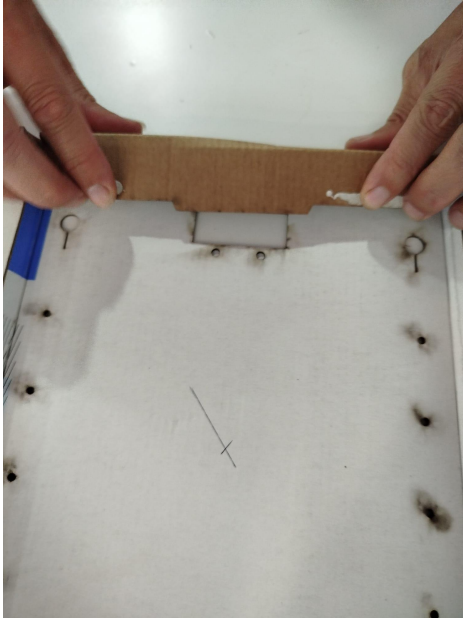


3

Building of the board



4



5

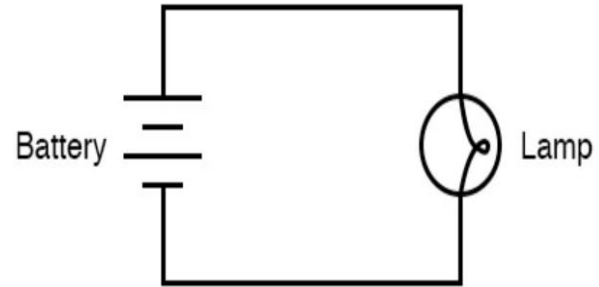
6



What is a simple circuit?

Necessary configuration to
create a circuit

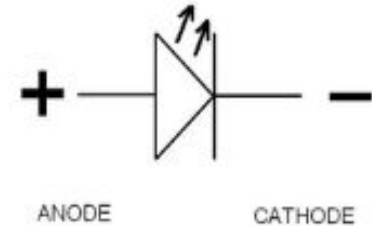
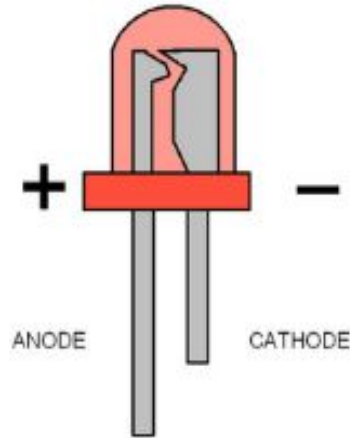
Definition of “open” and “closed”
circuit



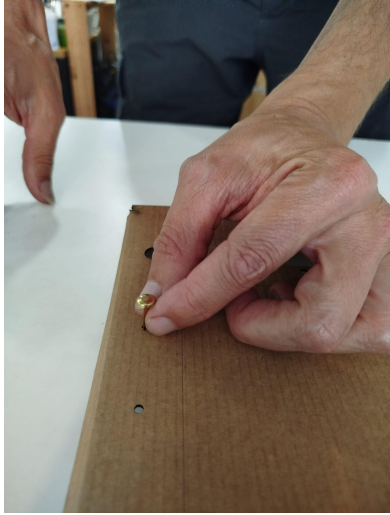
What is a LED

Plus (+) is the
largest leg

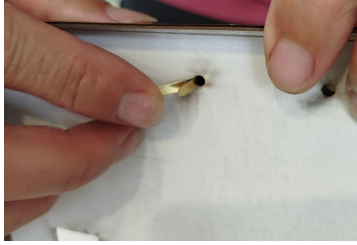
Minus (-) is the
shortest leg



Electronics



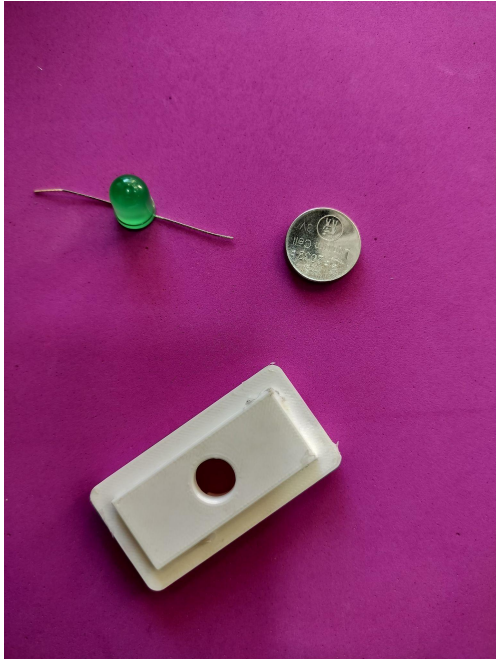
7



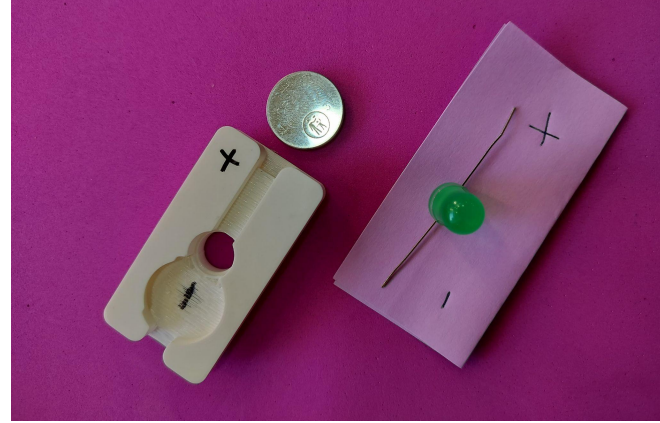
8



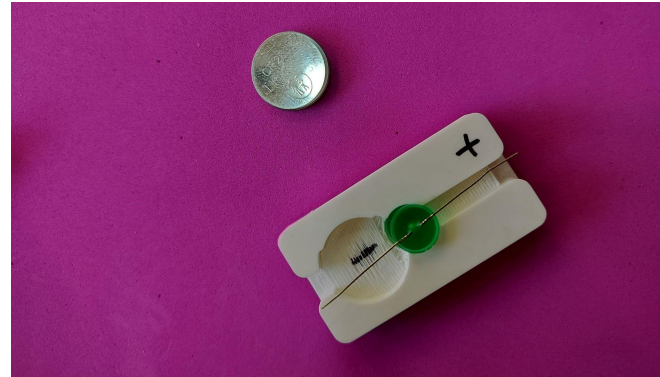
Eletronics



9



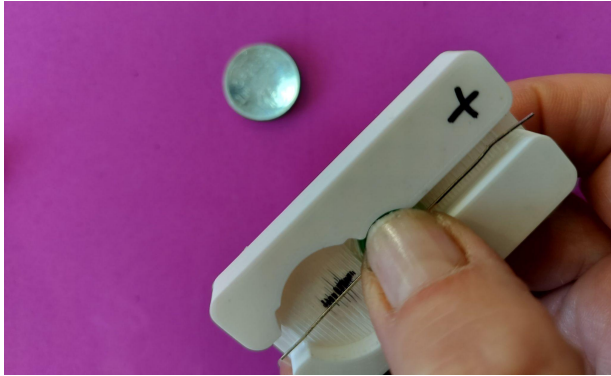
10



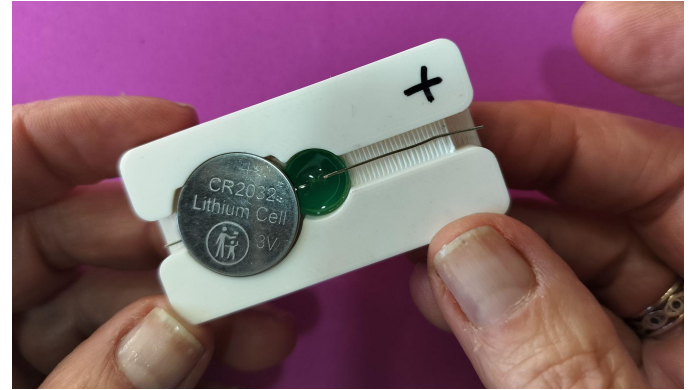
MATERIAL

Electronics

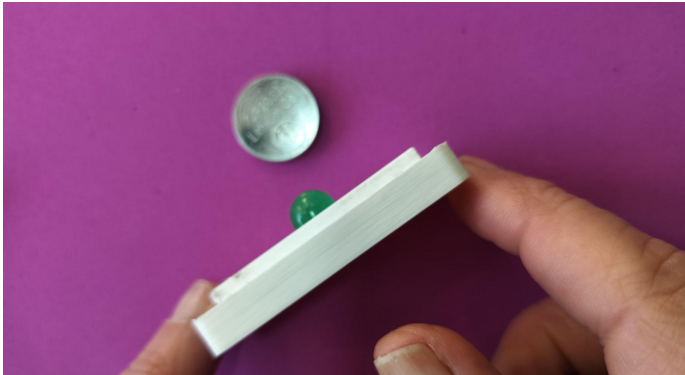
11



13



12

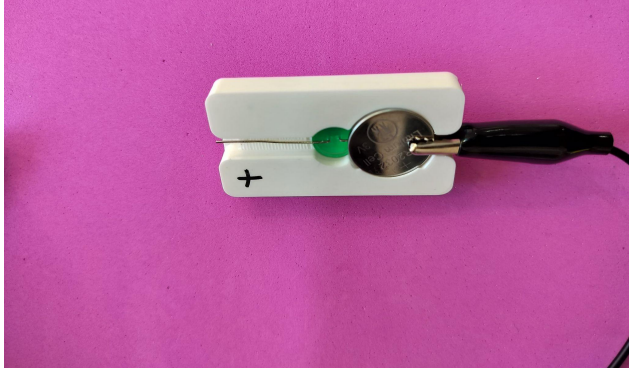


14

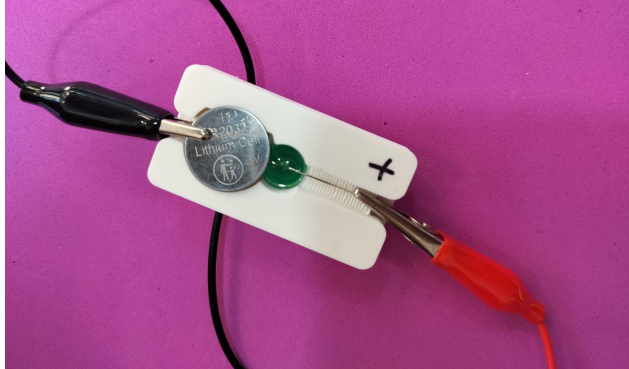


Electronics

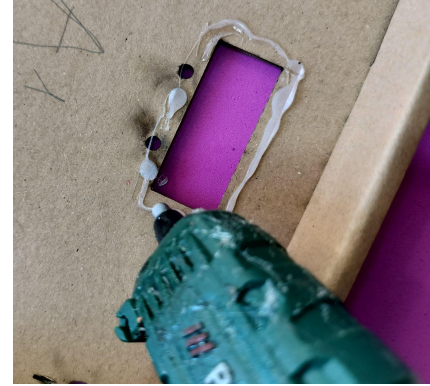
15



16



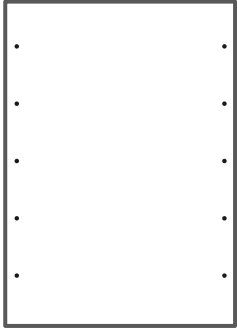
17



18



Canva



Canva link