

#DIY #STEAM #BUILDINGBLOCKS
#OPEN-SOURCE #OER #CREATIVECOMMONS

BEFORE YOU START

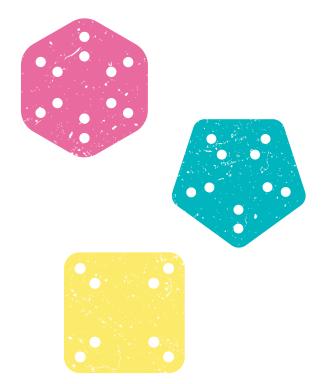


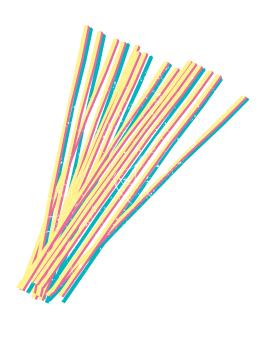
WHAT IS **ALQUIMÉTRICOS?**

Alquimétricos is a free and Do-It-Yourself toy that consists of two main parts: the **connectors** and the **beams**. Using only these two building blocks we can create all kinds of flat and tridimensional structures!

CONNECTORS

BEAMS





Depending on the material of the connector, the diameter of the beams and the holes, you may also need to use little **elastic bands** to secure the structures you build.





SOME STRUCTURES BUILT WITH ALQUIMÉTRICOS









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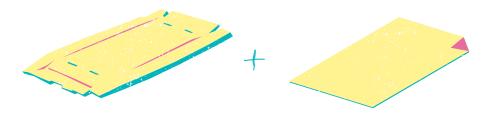






FOR CONNECTORS TEMPLATES

Cardboard and White paper



FOR CONNECTORS

PREFERABLY

EVA Rubber



OTHER OPTIONS

- · Milk / Juice Box
- · Denim
- Truck / car / bicycle rubber inner tube



FOR BEAMS

PREFERABLY

Bamboo Sticks



OTHER OPTIONS

- · Barbecue/sugar cotton sticks
- · Paper rolls
- · Raffia sticks for perfume diffuser

1 pack of 50 are usually cheap and serves for many projects as you can cut them in 2 or 3

FOR FASTENING

PREFERABLY

Small elastic bands



OTHER OPTIONS

- · Regular size elastic bands
- · Glue
- · Hot-melt adhesive





SOMETHING TO PUNCH HOLES

PREFERABLY

Punch Hole Pliers



OTHER OPTIONS

- · Awl -
- · Self-made-awl
- · Paper punches
- · Corkscrew



SOMETHING TO CUT SOFT MATERIALS

PREFERABLY

Big Scissors



OTHER OPTIONS

· Paper cutter/utility knife



SOMETHING TO CUT HARD MATERIALS

PREFERABLY

Pet nail clipper



OTHER OPTIONS

- Cutting pliers
- · Pruning shears



TOOLSYOU WILL USE



Marker or Pen



Glue



Tape



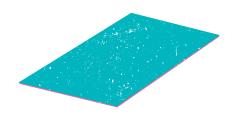
Cellphone, tablet or computer



Ruler or Measuring tape



Sandpaper or nail file

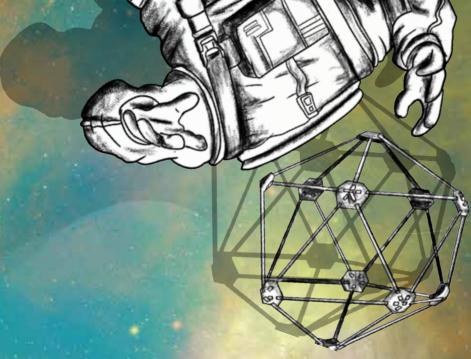


SAFETY WARNING

Some tools are easier to handle than others. We strongly recommend adult supervision or manipulation during the manufacturing part of the process.



SCAN ME



Alquimétricos was founded in 2015 by Fernando Daguanno and soon after it became an international community of makers, educators, visual artists, open-knowledge activists and communicators.

Our mission is to deliver affordable, do-it-yourself (DIY) open educational resources (OERs) focused on science, technology, engineering, arts, and math (STEAM).

Do you want to know more about us:

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