

UNPLUGGED ROBOTICS – WHEN ROBOTICS IS EDUCATIVE



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UNPLUGGED ROBOTICS — WHEN ROBOTICS IS EDUCATIVE



Everyone can learn
robotics in a simple,
effective
and fun way

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WE ARE TALKING ABOUT...

“

I teach and I like to do it.

I believe that the pupil must always surpass the teacher.

Otherwise, there is no progress.

”



THE SIX CORNERSTONES





THE SIX CORNERSTONES

Putting the student first

Materials, tools and processes chosen
always put the student first,
allowing them to work in complete safety
and independently,
without sacrificing their creativity.



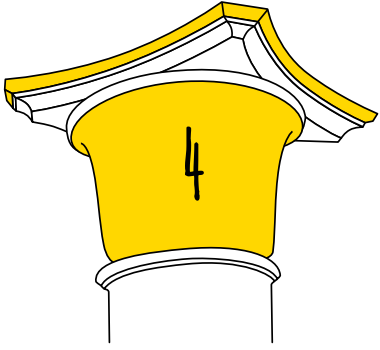


THE SIX CORNERSTONES

Respect of the environment

The majority of materials
must be biodegradable,
reusable or recycled.



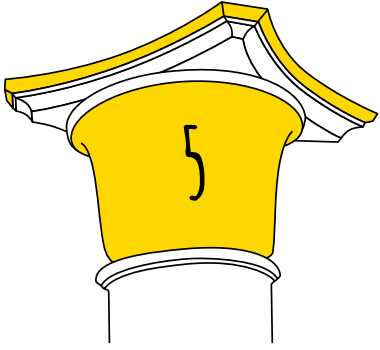


Time limit

THE SIX CORNERSTONES

Each activity must be completed
in no more
than forty minutes.





Short and simple

THE SIX CORNERSTONES

Projects should be easy to build and repair.

If a piece breaks or batteries run out,

they should be easy to replace,

without adult guidance,

to extend the life of the product.





Wow effect

THE SIX CORNERSTONES

Fantastic, fun projects
increase students' confidence
and interest
in engineering and technology.



I LIKE THE IDEA. GIVE ME SOME EXAMPLES!

The real strength of the project
is involving pupils as science communicators:
so, children see them as older brothers,
closer to them,
to their way of thinking and studying.

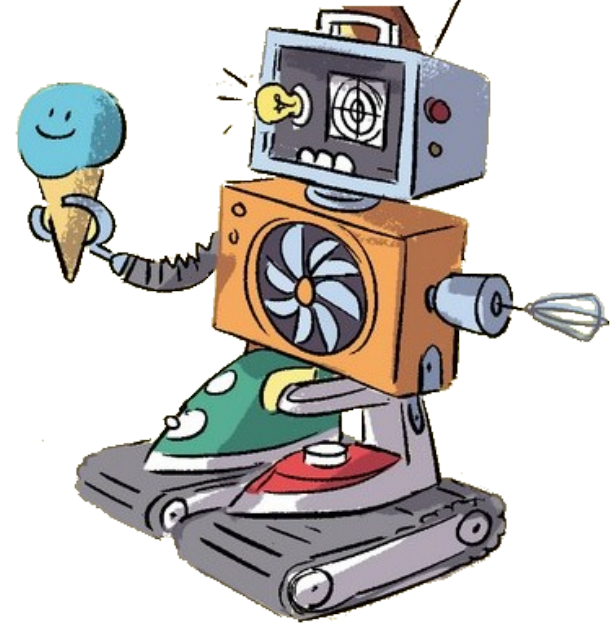


VIBOT: THE SIMPLEST AND MOST SUCCESSFUL ROBOT

A moving paper robot.
Evry children love it.



w.wiki/FvMq



SEPARATE WASTE COLLECTION

This project explains the levers
(in particular those of class 1 and 3).
Building a waste bin it is easy:
everyone have seen it.
Now we study its physics.



w.wiki/FvPF



CAESAR CIPHER

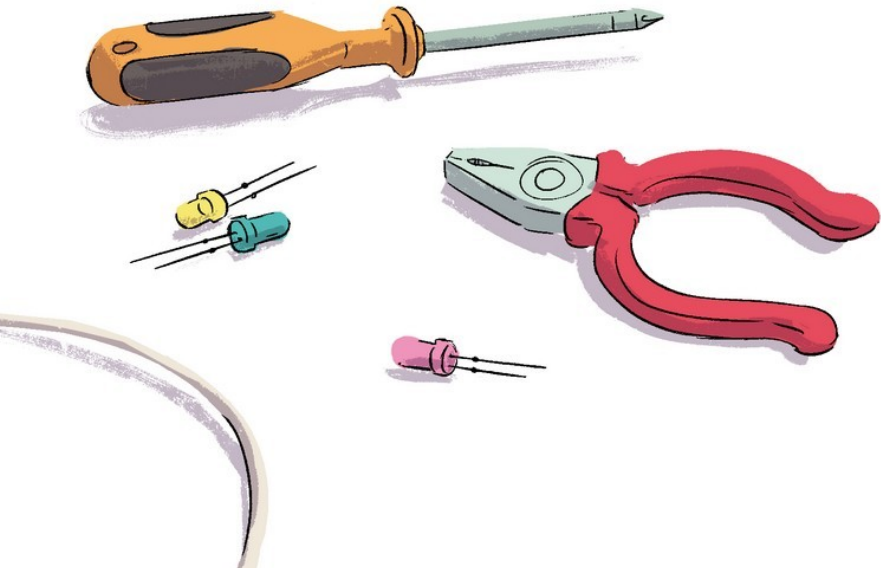
In other words:
how to send secret messages
that can withstand
the prying eyes of parents.



[w.wiki/FvWs](https://www.wiki/FvWs)



FIAT LUX



A LED, a battery and little else...

...and here a kind of magic.

And lots of surprises in the rainbow...

TRYING TO HIT THE TARGET



Ada is a curious girl.

We want inspire curiosity.

This is our target.

AND THE ICE CREAM?



AND THE ICE CREAM?



QUESTIONS & ANSWERS

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Drawings by Sandra Brandstätter

