

# Children's bikes



[https://wiki.lowtechlab.org/wiki/V%C3%A9lo\\_pour\\_enfants/en](https://wiki.lowtechlab.org/wiki/V%C3%A9lo_pour_enfants/en)

Dernière modification le 10/02/2026

Difficulty Medium

Duration 4 day(s)

Cost 0 EUR (€)

## Description

The aim of the project is to design and develop an adapted bicycle designed to provide a safe and enjoyable experience for autistic children when out and about. The adapted bike will be attached to the back of a standard bicycle. The bike is specially designed to accommodate a child with severe autism.

# Summary

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# Introduction

The project to create an adapted bike for autistic children embodies the combination of innovation and inclusivity, aimed at providing a safe and rewarding riding experience. Combining creative re-use of existing materials with mechanical and design solutions, this tutorial provides a detailed guide to making this unique bike. The aim is to provide an adapted means of transport that encourages autistic children to participate and flourish when out and about in the great outdoors. Follow each step carefully to create a bike that transcends boundaries, bringing comfort, safety and happiness to the children who will benefit from it.

The bike used by the association cost more than 2,000 euros, so the challenge was to produce a low-tech bike that would be accessible to all. It's also worth noting that the front attachment can be reused for future tandems, underlining the durability and versatility of this approach.



## Materials

1. The bicycle frame (for the child)
2. Metal bar with hook between the two bikes
3. Two wheels and an axle between them for stability and propulsion
4. Cast-iron bar with tape (backrest)

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## Tools

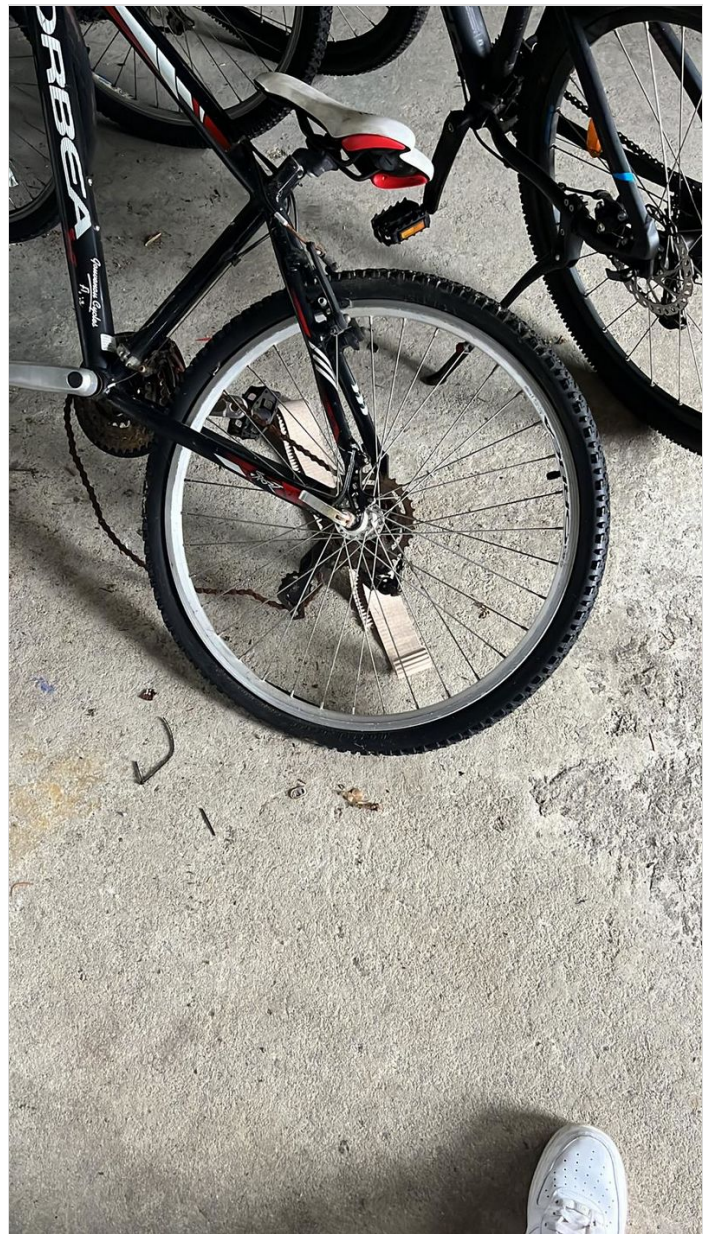


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## Step 1 - Dismantling existing bikes

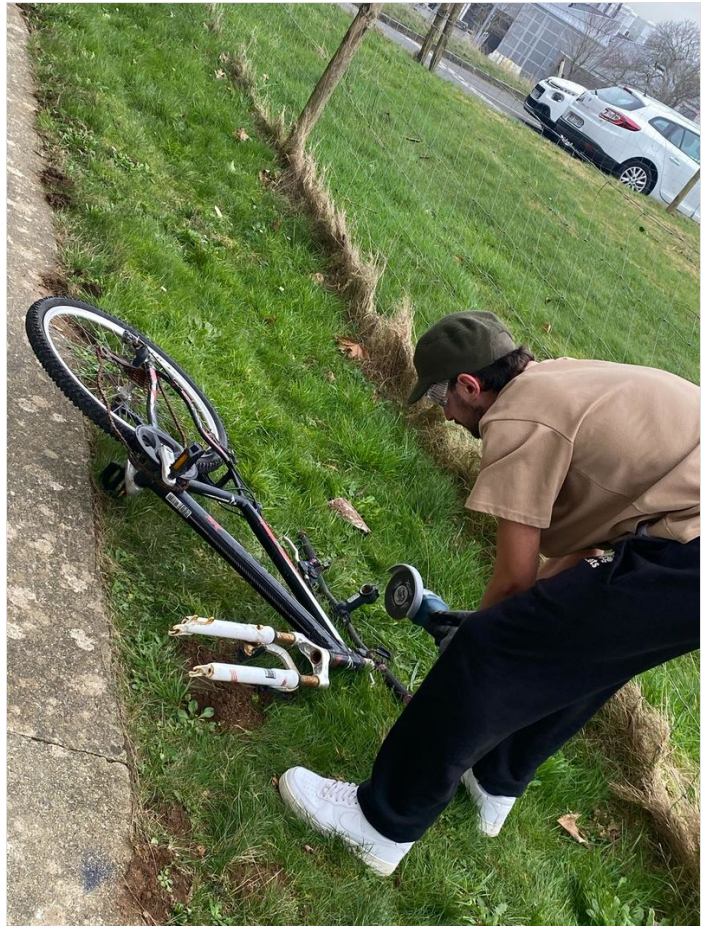
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Step 2 - Identification of components to be dismantled

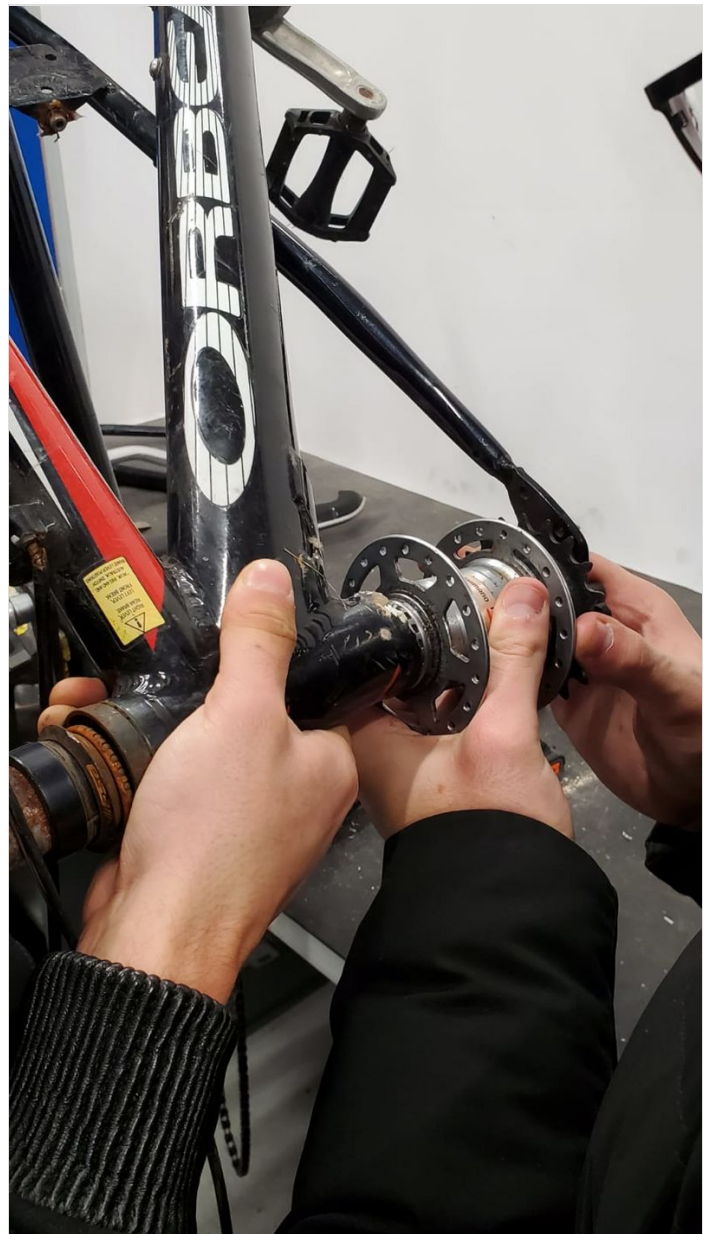


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Step 3 - Removing the Seat,  
Disconnecting the Brakes,  
Removing the Handlebars

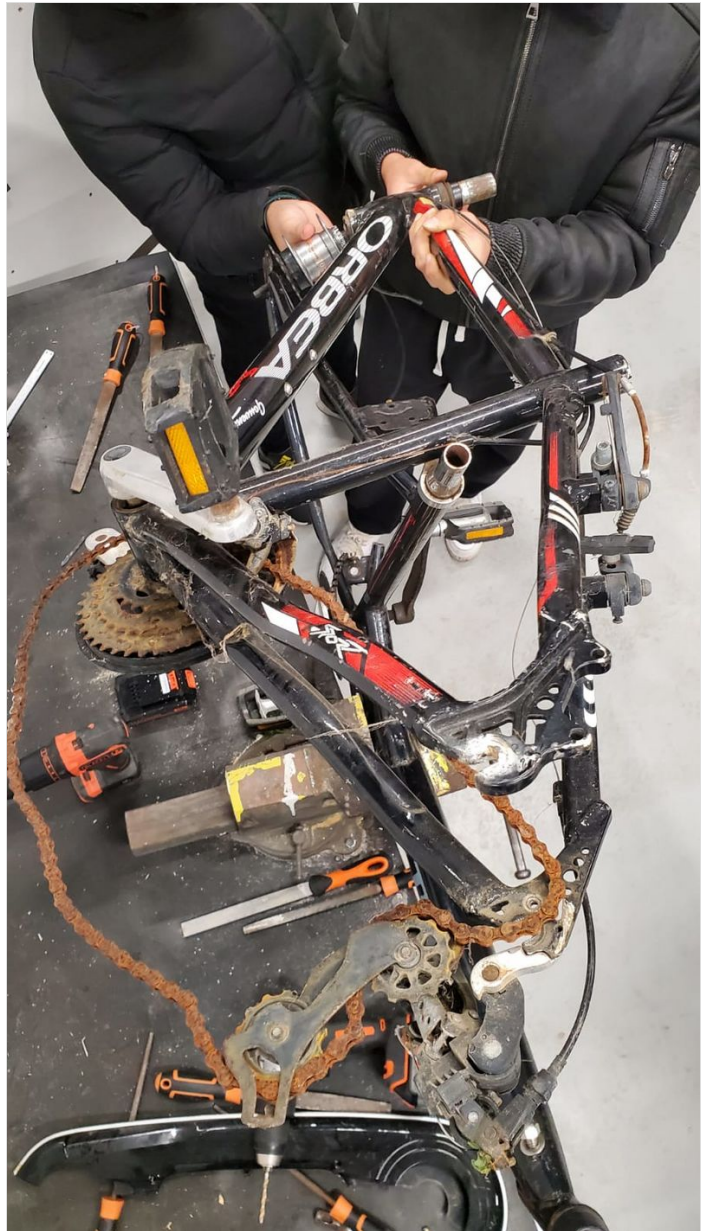


## Step 4 - Removing the freewheel

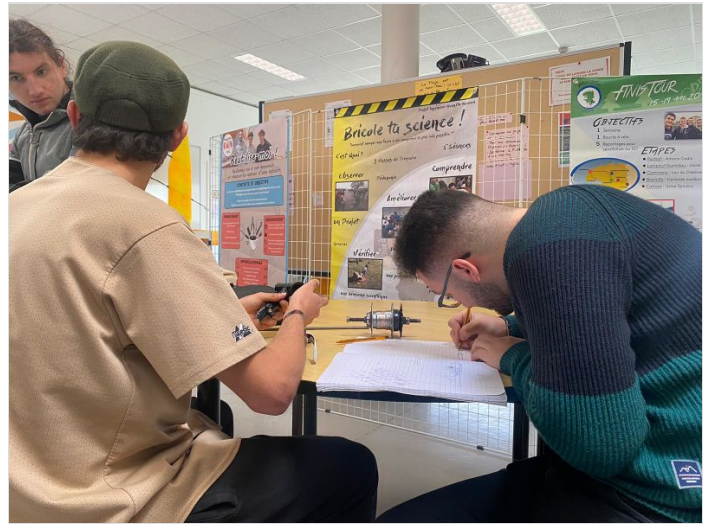


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## Step 5 - Cutting off one of the rear legs



Step 6 - Creating an attachment to link the two bicycles :



Step 7 - Addition of the safety/comfort section



Step 8 - Conclusion