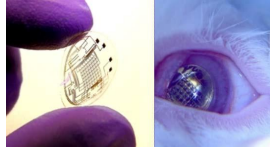


BIONIC : HOW TO COPY THE REAL ?

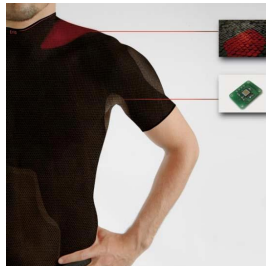


- Improve the performances thanks to bionic.
- Understand sensors.
- Program robots.

SPORT :

How can the equipment improve performance?

- Materials constituting the skins
- Intelligent clothes



After the 2°

As in each exploration teaching, all the choices are still possible after the 2°. ES allows to discover the possibilities of continuing studies in « SI » or « STI2D » series, to prepare technical or scientific studies in « BTS », « IUT », at the university and in the “grandes écoles”.

Contacts

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OR « cassin macon » ON GOOGLE

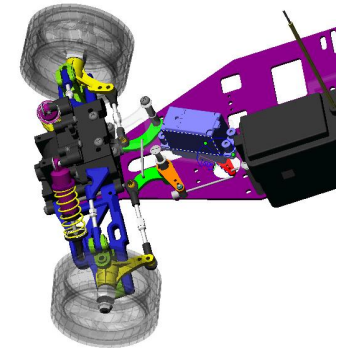


ES



2° Exploration teaching

ENGINEERING SCIENCES



*How does it work ?
How has it been conceived ?*

<http://lyc71-cassin.ac-dijon.fr/>
OR
« cassin macon » ON GOOGLE

OBJECTIFS :

- To make pupils discover the links between **society and technology**
- To understand how technical objects **function** and **how they are built** in the respect of **sustainable development**.
- To learn the **approach of conception**
- To **work** on your own **educational guidance**
- To learn to communicate with **computers**

LEARNING HOURS

1,5H / week

Most activities are made in autonomy by small groups of 2 pupils. The work is based on the equipment of the engineering sciences lab.

ACTIVITIES DONE BY THE PUPILS

To understand how the products are conceived :

- by using the products
- by reading digital technical documentation
- by using **professional softwares** (3D modelling tools, CAD, CAS, electrical and pneumatic engineering)
- by writing reports
- by making a presentation to the class

THEMES ABORDES

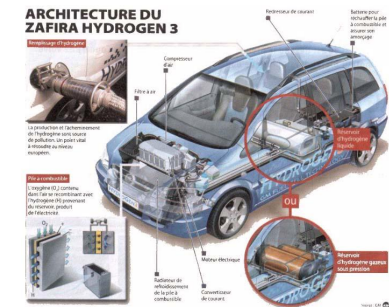
Home automation (domotics) : Why and how to automate the house?



To understand the functioning of « intelligent » houses which make it possible to manage the heating, lighting, watering to improve comfort, to make energy saving and to improve safety.



RENEWABLE ENERGY



Which energy to use to preserve our planet?

