BIONIC: HOW TO COPY THE REAL?







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

SPORT:

How can the equipment improve performance?

- Materials constituting the skis
- 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 scientifical studies in « BTS», « IUT», at the university and in the "grandes écoles".

Contacts

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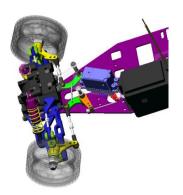
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2° Exploration teaching

ENGINEERING SCIENCES



How does it work?
How has it been conceived?

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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?



