

**VELO
A ASSISTANCE ELECTRIQUE
MATRA sur Home Trainer**

**TP STI2D 1-M1-b
Anglais - Tutorial**



1. Range of Electric Vehicles

Using the documentation "Matra - Range of Electric Vehicles" you must describe in a few lines (in English) the range of electric vehicles produced by the manufacturer Matra and highlight how much money an electric car can save as compared with a diesel vehicle.

2. Electric bike

While doing a research, determine what vocabulary you need to describe the various components of the electric bike:



You have at your disposal the file "**Compare electric bike**" in which there is a test on a range of electric bikes:

What criteria have been taken into account to compare them?

Where on the bike can the engine be located?

Where on the bike can the battery be set?

What is the price range of an electric bike?

3. Bionx Motor

Using the videos "BionX1" and "BionX2", explain in a few lines how the engine functions.

How efficient is the electric motor?

What is the range of functioning of the engine according to the impulsion given by the cyclist?

Where in the engine are the magnets and the coils?

Where is the sensor that measures the impulsion developed by the cyclist (strain gauge)?

