

Dear students,

The URL of the educational video «How does a Tesla Car work»- which is also located in «Πολυμέσα» and «Σύνδεσμοι») is the following:

<https://www.youtube.com/watch?v=3SAxXUIre28>

You may download the .srt file containing the subtitles from DownSub.com. In the empty field you paste the video URL and choose as subtitle language either English or Greek.

In the VLC player open/play the video file. From the main tabs select: Subtitles Tab→Add subtitle file, and browse to find the .srt file (srt file must be located in the same folder as the video file).

You can choose your preferred format for the subtitles such as text color and size by selecting Subtitles→ Text color or text size.

Sincerely yours,

Maria Rizou, Ph.D.

Student Name:

Answer 4 out of the 8 questions referring to the video lecture «How does a Tesla Car work» and turn them in during the next lecture.

- Why is this electric car named after N. Tesla?
- What is the main advantage of the electric car motor over the IC engine in terms of the motor speed N ?
- What is the range of the motor speed in rpm?
- How do you explain the fact that there is no need for speed varying transmission in an electric car?
- What is the role of the inverter? Why is this device called the “brain” of the electric car?
- What are the two main benefits of using a large battery pack that is located at the bottom of the electric vehicle?
- How does the “single pedal braking” work in an electric car? What is the only case when the brake pedal is used?
- How can the regenerative braking generate energy? Where is this stored?

Answers: