

Electric guitar



"A musical instrument made by students"

by

Nikos Fanourakis

Greece

Short description

. The students will learn the concepts of oscillation, frequency, musical notes, electric circuit, measurement of resistance, voltage, current and amplification of an electric signal by constructing an electric guitar.

. The students will review the relevant literature before they proceed with the actual construction of guitar. The teacher will have a guiding role during the whole period.

.**keywords:** Musical instrument ,electric circuit, luthier, electric measurements , amplification, resistance

Student age group addressed

16-18
year-old

Level in my country:

Upper secondary

Curriculum area(s) addressed

Greek, English

- Mathematics
- Science and technology
- History
- Music

.A cross-curricular approach? Yes

EU key competences addressed

- .Communication in the mother tongue
- .Communication in foreign languages
- .Mathematical, science and
. technology competences
- .Digital competence
- .Learning to learn
- .Learning how to do bibliographical research
- .Social competences
- .Sense of initiative and entrepreneurship
- .Cultural awareness and expression

A special emphasis on...

- critical thinking
- creativity
- problem solving
- initiative taking
- decision making
- risk assessment
- constructive management of feelings

Thank you! 😊