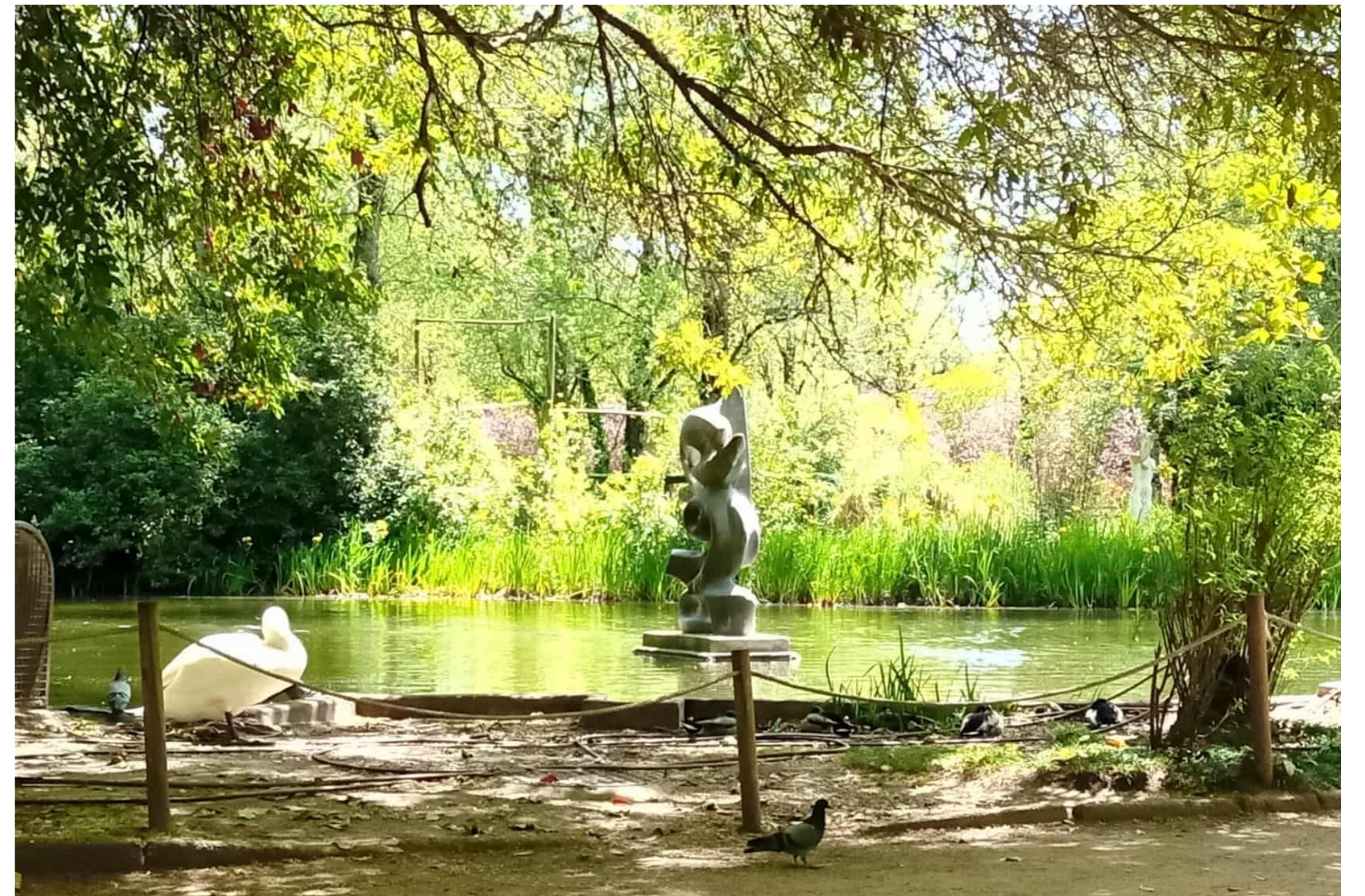


M. Pimenta, M. Vidigal | Escola Sec. Rafael Bordalo Pinheiro | Caldas da Rainha | Portugal

Sounds and Lights

A sensory experiment in "Parque D. Carlos I and Mata Rainha Dona Leonor"

This project aimed to study sound attributes, light wave phenomena, wave characteristics and explore biodiversity in a multidisciplinary and autonomous way by using sensors and senses in an immersive experiment in nature.



Physics

Observation

Multidisciplinary

Biodiversity

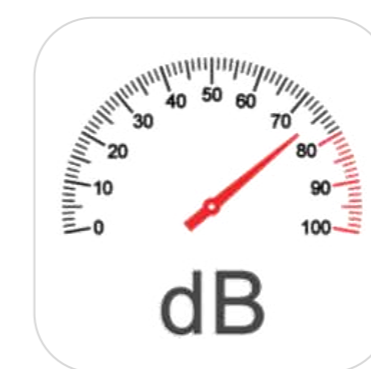
Properties of waves

Cell Phone Apps

Nature

Lab notebooks

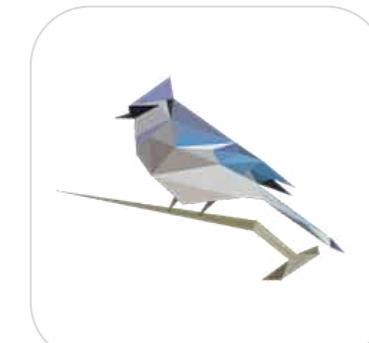
Characteristics of sound
Light wave phenomena



Sound Meter
Abc Apps



BirdNET
Stefan Kahl



Oscilloscope
XYZ-Apps



The contemplation of nature proved to be effective in the development of critical thinking, communication and observation skills and consolidation of school thematics, raising awareness for natural patrimony preservation and planet sustainability.