

# Electrochemistry lab experiences with critical raw materials

## A. Main topics

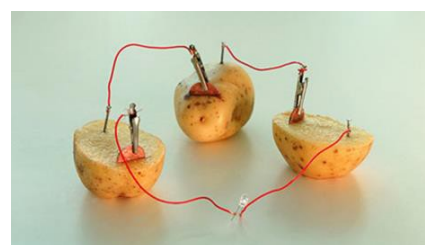
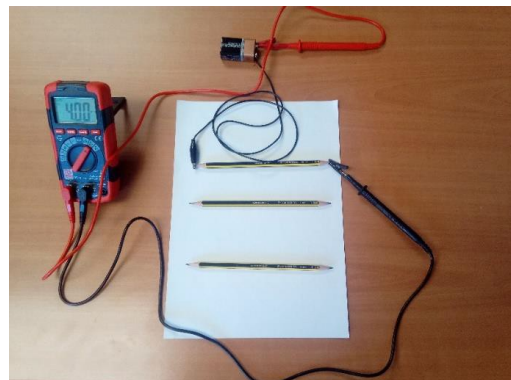
- Electrochemistry

## B. targeted audience

- 15-18 years old students

## C. Key concepts

- Water electrolysis
- Graphite conductivity
- Galvanic cell



## D. Experimental activity

- Test the electrolysis of water, using a battery and a saline solution to produce hydrogen gas.
- Test the conductivity of graphite, using different hardness pencils, a battery and a multimeter.
- Make a battery using potatoes, zinc and copper to turn on a LED.

## E. Toolkit material

- Plastic container, graphite pencils, silicon gun, test tubes, battery, multimeter, cables, water, salt (NaCl).
- Potatoes, galvanized nails (zinc), copper coins, crocodile clips, copper wire, scissors, LED.

## F. RM Tutors

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