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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