

Pencil Electrolysis

Water is often considered to be a rather stable compound; that is, adding energy in the form of heat only causes a change in its state, but the steam that results is still H_2O . Nevertheless, you can use household materials to decompose water into its elements!

Materials

- 9-volt battery
- 2 wooden pencils
- electrical tape
- 2 4- to 6-inch pieces of small gauge insulated wire (two different colors are preferable)
- masking tape
- marker
- shallow cup or bowl
- table salt or Epsom salt
- water
- 1 of the following combinations (to make an acid-base indicator):
 - * red cabbage and either a blender or a stove and pan
 - * Ex-Lax® tablet and spoon

Getting Ready

Step 1 Electrolysis apparatus: Sharpen both ends of the pencils. Use electrical or masking tape to attach the battery between the pencils. (See Figure 1.) Strip two centimeters of the insulation from both ends of each of the two pieces of wire. Wrap one end of each piece of wire to a terminal of the battery (Red traditionally goes with positive, and black or green goes with negative). Make sure that the stripped ends are in contact with the terminals, then secure with electrical tape. Wrap the other end of each wire to the sharpened tip of a pencil. Make sure that the stripped ends are in contact with the lead (graphite) of the pencil tips, then secure with electrical tape. With masking tape and a marker, label which wire goes to the positive terminal and which goes to the negative terminal.

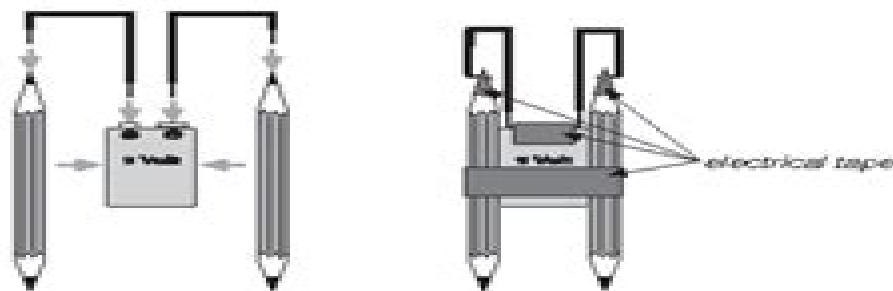
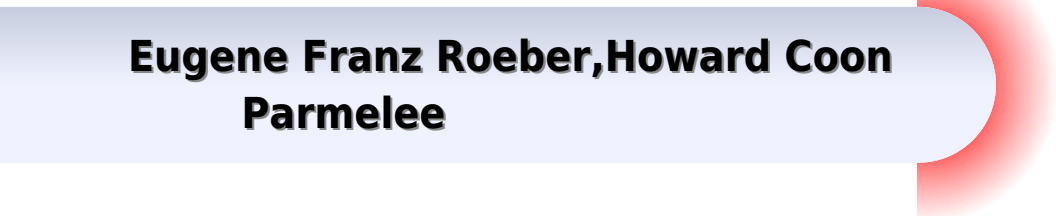


Figure 1: Assemble the pencil electrolysis apparatus.

Step 2 Electrolyte solution: Pour about 1 cm of water into the cup or bowl. Stir in table salt or Epsom salt until no more will readily dissolve.

Electrochemistry Pencil Electrolysis Lab Answers

**Eugene Franz Roeber, Howard Coon
Parmelee**



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Table of Contents Electrochemistry Pencil Electrolysis Lab Answers

1. Understanding the eBook Electrochemistry Pencil Electrolysis Lab Answers
 - The Rise of Digital Reading Electrochemistry Pencil Electrolysis Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Electrochemistry Pencil Electrolysis Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Electrochemistry Pencil Electrolysis Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electrochemistry Pencil Electrolysis Lab Answers
 - Personalized Recommendations
 - Electrochemistry Pencil Electrolysis Lab Answers User Reviews and Ratings
 - Electrochemistry Pencil Electrolysis Lab Answers and Bestseller Lists
5. Accessing Electrochemistry Pencil Electrolysis Lab Answers Free and Paid eBooks
 - Electrochemistry Pencil Electrolysis Lab Answers Public Domain eBooks
 - Electrochemistry Pencil Electrolysis Lab Answers eBook Subscription Services
 - Electrochemistry Pencil Electrolysis Lab Answers Budget-Friendly Options
6. Navigating Electrochemistry Pencil Electrolysis Lab Answers eBook Formats

- ePub, PDF, MOBI, and More
 - Electrochemistry Pencil Electrolysis Lab Answers Compatibility with Devices
 - Electrochemistry Pencil Electrolysis Lab Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electrochemistry Pencil Electrolysis Lab Answers
 - Highlighting and Note-Taking Electrochemistry Pencil Electrolysis Lab Answers
 - Interactive Elements Electrochemistry Pencil Electrolysis Lab Answers
 8. Staying Engaged with Electrochemistry Pencil Electrolysis Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electrochemistry Pencil Electrolysis Lab Answers
 9. Balancing eBooks and Physical Books Electrochemistry Pencil Electrolysis Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electrochemistry Pencil Electrolysis Lab Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Electrochemistry Pencil Electrolysis Lab Answers
 - Setting Reading Goals Electrochemistry Pencil Electrolysis Lab Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Electrochemistry Pencil Electrolysis Lab Answers
 - Fact-Checking eBook Content of Electrochemistry Pencil Electrolysis Lab Answers
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
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