



Supported by:

## Pencil Electrolysis

### Example Indiana Science Indicators Addressed:

- 1.1.1 Observe, describe, draw and sort objects carefully to learn about them.
- 1.1.2 Investigate and make observations to seek answers to questions about the world.
- 3.1.4 Discuss the results of investigations and consider the explanations of others.
- 4.2.3 Make simple and safe electrical connections with various sockets, plugs and terminals.
- 6.3.19 Investigate that materials may be composed of parts that are too small to be seen without magnification.

### Materials:

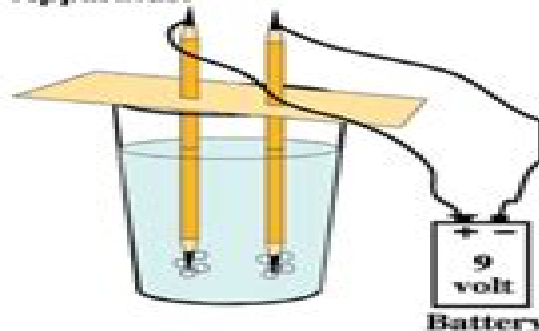
- Two regular number 2 pencils (remove eraser and metal part on the ends)
- 2 transparent plastic cups per group
- water
- table salt (NaCl)
- spoon (for mixing)
- 1 9V battery/group
- 2 pieces of cardboard (enough to cover the opening)
- 2 connecting wires (optional)
- tape (optional)

Caution: Use only 9V batteries (direct current) for this experiment.

### Procedure:

- Sharpen each pencil at both ends.
- Cut the cardboard to fit over glass.
- Push the two pencils into the cardboard, about 1.5 centimeters apart.
- Dissolve about a teaspoon of salt into the warm water and let sit for a while. The salt helps conduct the electricity better in the water.
- (Option 1) Using one piece of the electrical wire, connect one end on the positive side of the battery and the other to the black graphite (the "lead" of the pencil) at

### Apparatus:



[http://www.energyquest.ca.gov/projects/split\\_h2o.html](http://www.energyquest.ca.gov/projects/split_h2o.html)

# Electrochemistry Pencil Electrolysis Lab Answers

**Peipei Pang**



## Electrochemistry Pencil Electrolysis Lab Answers:

Exploring General Chemistry in the Laboratory Colleen F. Craig, Kim N. Gunnerson, 2017-02-01 This laboratory manual is intended for a two semester general chemistry course The procedures are written with the goal of simplifying a complicated and often challenging subject for students by applying concepts to everyday life This lab manual covers topics such as composition of compounds reactivity stoichiometry limiting reactants gas laws calorimetry periodic trends molecular structure spectroscopy kinetics equilibria thermodynamics electrochemistry intermolecular forces solutions and coordination complexes By the end of this course you should have a solid understanding of the basic concepts of chemistry which will give you confidence as you embark on your career in science

**Developments in Electrochemistry** Derek Pletcher, Zhong-Qun Tian, David Williams, 2014-08-11 Martin Fleischmann was truly one of the fathers of modern electrochemistry having made major contributions to diverse topics within electrochemical science and technology These include the theory and practice of voltammetry and in situ spectroscopic techniques instrumentation electrochemical phase formation corrosion electrochemical engineering electrosynthesis and cold fusion While intended to honour the memory of Martin Fleischmann *Developments in Electrochemistry* is neither a biography nor a history of his contributions Rather the book is a series of critical reviews of topics in electrochemical science associated with Martin Fleischmann but remaining important today The authors are all scientists with outstanding international reputations who have made their own contribution to their topic most have also worked with Martin Fleischmann and benefitted from his guidance Each of the 19 chapters within this volume begin with an outline of Martin Fleischmann's contribution to the topic followed by examples of research established applications and prospects for future developments The book is of interest to both students and experienced workers in universities and industry who are active in developing electrochemical science

**Laboratory Manual of Applied Electrochemistry** Cornelius Sherman Grove, George Hamilton Montillon, 1939 Theoretical and Applied Electrochemistry Maurice de Kay Thompson, 1925 Chemical & Metallurgical Engineering Eugene Franz Roeber, Howard Coon Parmelee, 1929 **Mines and Minerals**, 1906 *Western Electrician*, 1903 **English Mechanic and World of Science**, 1889 **Nuclear Science Abstracts**, 1966 **Cumulated Index Medicus**, 1972 **English Mechanics and the World of Science**, 1889 **Government Reports Announcements & Index**, 1982 *Bulletin American Institute of Architects*, 1953 Bulletin of the American Institute of Architects, 1952 Science Books & Films, 1976 **Science Citation Index**, 1994 Vols for 1964 have guides and journal lists **Metals Abstracts**, 1994 *Funk & Wagnalls New Standard Dictionary of the English Language*, 1936 *Yearbook of Science and the Future*, 1999 *Electrochemistry* Susan Marie Szegedi, 2000

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