

Name:

Electricity and chemistry

Safety: There are harmful chemicals being used in the laboratory, even if you are not using them yourself. Safety goggles must be worn.

Experiment 1

There are many substances around the lab. Devise a test to see if they conduct electricity using a cell, a bulb, some wires and some electrodes. Record your results in a table on the back of this sheet.

Experiment 2

Set up an electrolysis cell as was done for the experiment to extract copper from malachite. Use copper sulphate solution.

What do you see happen at the electrodes?

What is the equation for this reaction?

Experiment 3

Your teacher will demonstrate the electrolysis of copper chloride solution. Why does this have to be done in a fume cupboard?

What is the equation for this reaction

Experiment 4

Your teacher will demonstrate the electrolysis of brine (sodium chloride solution). Can you write an equation for the electrolysis of brine?