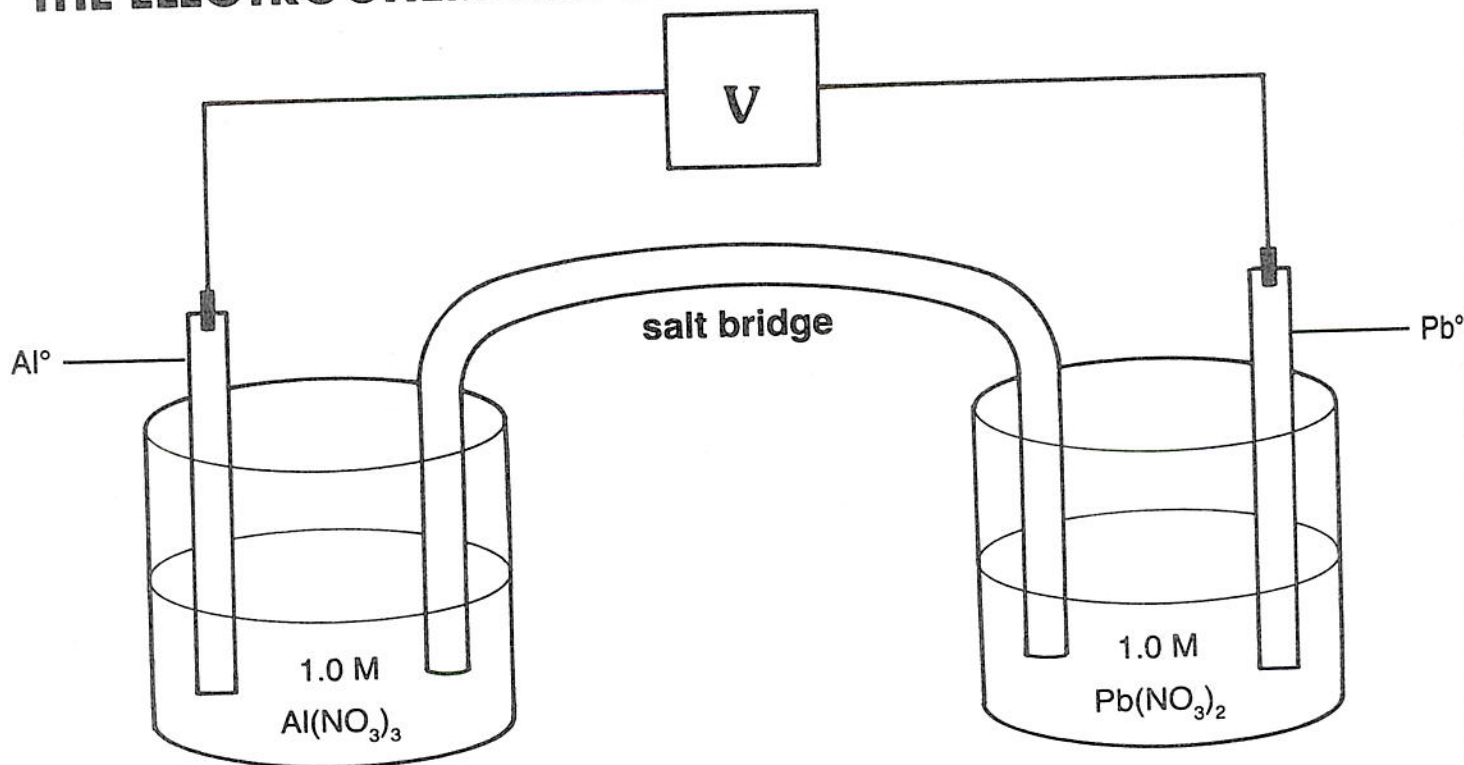


THE ELECTROCHEMICAL CELL

Name _____



Answer the questions below referring to the above diagram and a Table of Standard Electrode Potentials.

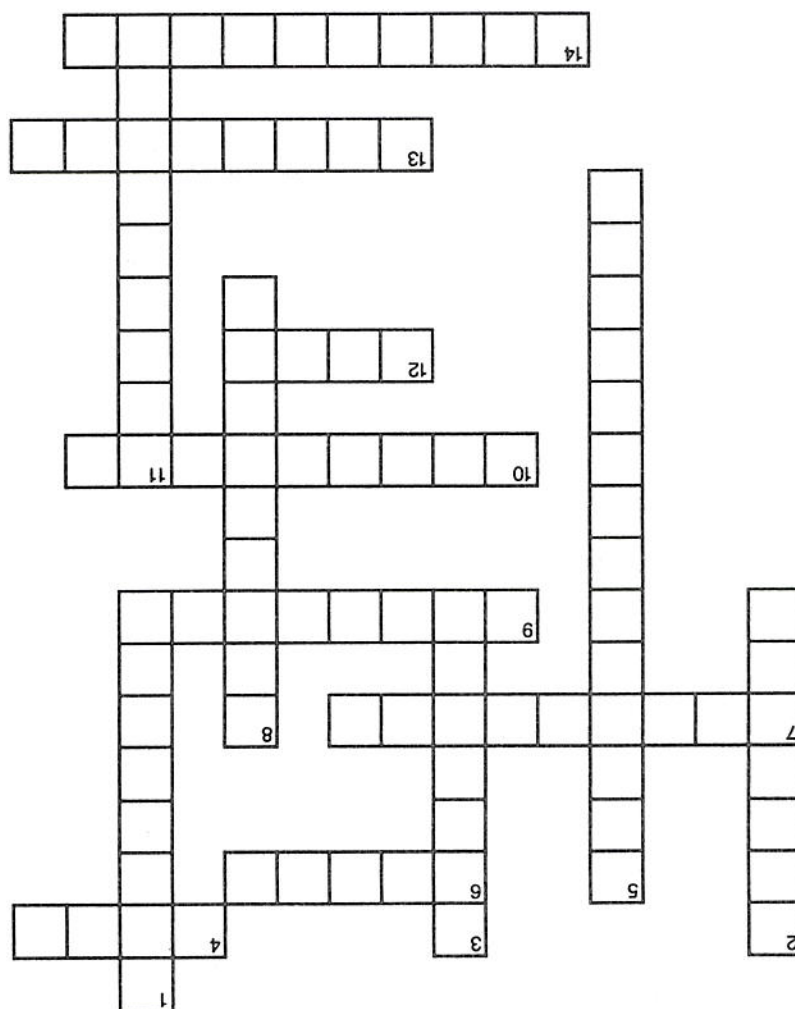
1. Which is more easily oxidized, metal, aluminum or lead? _____
2. What is the balanced equation showing the spontaneous reaction that occurs?

3. What is the maximum voltage that the above cell can produce? _____
4. What is the direction of electron flow in the wire? _____
5. What is the direction of positive ion flow in the salt bridge? _____
6. Which electrode is decreasing in size? _____
7. Which electrode is increasing in size? _____
8. What is happening to the concentration of aluminum ions? _____
9. What is happening to the concentration of lead ions? _____
10. What is the voltage in this cell when the reaction reaches equilibrium? _____
11. Which is the anode? _____
12. Which is the cathode? _____
13. What is the positive electrode? _____
14. What is the negative electrode? _____

14. Allows the flow of ions in an electrochemical cell
13. A substance that is oxidized is the _____ agent.
12. Voltage of an electrochemical cell when it reaches equilibrium
10. Gain of electrons
9. The anode in an electrochemical cell has this charge.
7. Both atoms and _____ must be balanced in a redox equation.
6. Electrode where oxidation takes place
4. Unit of electrical potential
1. The anode in an electrolytic cell has this charge.
2. Another word for an electrochemical cell
3. Electrode where reduction takes place
5. Process of layering a metal onto a surface in an electrolytic cell
8. Loss of electrons
11. A substance that is reduced is the _____ agent.

ACROSS

DOWN



ELECTROCHEMISTRY CROSSWORD

Name _____