# Galvanic Cells Quiz PDF

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**In a galvanic cell, where does oxidation occur?**

- ◯ Cathode
- ◯ Anode
- ◯ Salt bridge
- ◯ Electrolyte

**What is measured in volts in a galvanic cell?**

- ◯ Current
- ◯ Resistance
- ◯ Cell potential
- ◯ Charge

**What is the standard electrode potential used for?**

- ◯ To measure current
- ◯ To calculate cell potential
- ◯ To determine temperature
- ◯ To store energy

**What is the role of the cathode in a galvanic cell?**

- ◯ Site of oxidation
- ◯ Site of reduction
- ◯ Maintains electrical neutrality
- ◯ Provides a pathway for electron flow

**Describe a real-world application of galvanic cells and explain how they function within that application.**

**Which applications utilize galvanic cells?**

- [ ] Electroplating
- [ ] Corrosion prevention
- [ ] Heating systems
- [ ] Battery technology
- [ ] Water purification

**Describe the role of the salt bridge in a galvanic cell and why it is essential for the cell's operation.**

**What are the differences between primary and secondary galvanic cells? Provide examples of each.**

**Discuss the importance of standard electrode potentials in determining the cell potential of a galvanic cell.**

**How does the flow of electrons differ from the flow of ions in a galvanic cell?**

**Which component of a galvanic cell maintains electrical neutrality?**

- ◯ Electrodes
- ◯ Electrolyte
- ◯ Salt bridge
- ◯ External circuit

**What is the primary function of a galvanic cell?**

- ◯ Convert electrical energy into chemical energy
- ◯ Convert chemical energy into electrical energy
- ◯ Store thermal energy
- ◯ Measure temperature

**Explain how a galvanic cell converts chemical energy into electrical energy.**

**Which metal is commonly used as an electrode in galvanic cells?**

- ◯ Iron
- ◯ Gold
- ◯ Copper
- ◯ Mercury

**Which of the following statements about the salt bridge are true?**

- ☐ It conducts electrons
- ☐ It prevents charge buildup
- ☐ It allows ion flow
- ☐ It is an insulator
- ☐ It maintains electrical neutrality

**Which of the following is a primary cell?**

- ◯ Lead-acid battery
- ◯ Nickel-cadmium battery
- ◯ Alkaline battery
- ◯ Lithium-ion battery

**Which processes occur in a galvanic cell?**

- ☐ Oxidation
- ☐ Reduction
- ☐ Combustions
- ☐ Neutralization
- ☐ Electron flow

**Which of the following are components of a galvanic cell?**

- ☐ Anode
- ☐ Cathode
- ☐ Electrolyte
- ☐ Transformer
- ☐ Salt bridge

**In a galvanic cell, what roles do the electrodes play?**

- [ ] Anode releases electrons
- [ ] Cathode releases electrons
- [ ] Anode gains electrons
- [ ] Cathode gains electrons
- [ ] Both electrodes are neutral

**What are the characteristics of secondary cells?**

- [ ] Rechargeable
- [ ] Single-use
- [ ] Used in smartphones
- [ ] Non-rechargeable
- [ ] Used in remote controls