



Name _____ Class _____ Date _____

1 Which **reaction** occurs at the **anode** in **electrochemical cells** and in **electrolytic cells**?

- A reduction, only
- B oxidation, only
- C both reduction and oxidation
- D neither reduction nor oxidation

2 Which statement describes the **redox reaction** that occurs when an object is **electroplated**?

- A It is spontaneous and requires an electric current.
- B It is spontaneous and produces an electric current.
- C It is nonspontaneous and requires an electric current.
- D It is nonspontaneous and produces an electric current.

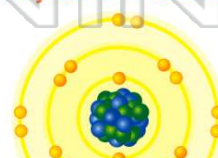
3 Which type of reaction produces **electrical energy** in a nickel-cadmium battery?

- A redox
- B hydrolysis
- C neutralization
- D combustion



4 Which **metal** can be produced only by the **electrolysis of its fused salt**?

- A Ag
- B Zn
- C Pb
- D K



PREVIEW

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A decrease
B increase
C remain the same

- B anode, which is positively charged
- C cathode, which is negatively charged
- D cathode, which is positively charged

9 Which **metals** are obtained by **electrolysis** of their **fused salts**?

- A K and Ca
- B K and Cr
- C Cu and Zn
- D Cu and Hg



10 Which **reaction** is an example of **oxidation-reduction**?

- A $\text{KOH} + \text{HCl} \rightarrow \text{KCl} + \text{H}_2\text{O}$
- B $2\text{KCl} \rightarrow 2\text{K} + \text{Cl}_2$
- C $\text{BaCl}_2 + \text{K}_2\text{SO}_4 \rightarrow 2\text{KCl} + \text{BaSO}_4$
- D $\text{KCl} + \text{AgNO}_3 \rightarrow \text{AgCl} + \text{KNO}_3$



ANSWER KEY

Which **reaction** occurs at the **anode** in **electrochemical cells** and in **electrolytic cells**?

- A reduction, only
- B oxidation, only
- C both reduction and oxidation
- D neither reduction nor oxidation

(b)

Which statement describes the **redox reaction** that occurs when an object is **electroplated**?

- A It is spontaneous and requires an electric current.
- B It is spontaneous and produces an electric current.
- C It is nonspontaneous and requires an electric current.
- D It is nonspontaneous and produces an electric current.

(c)

Which type of reaction produces **electrical energy** in a nickel-cadmium battery?

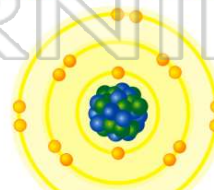
- A redox
- B hydrolysis
- C neutralization
- D combustion



(a)

Which **metal** can be produced only by the **electrolysis of its fused salt**?

- A Ag
- B Zn
- C Pb
- D K



(d)



PREVIEW

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- A decrease
- B increase
- C remain the same

- D cathode, which is positively charged

Which **metals** are obtained by **electrolysis** of their **fused salts**?

- A K and Ca
- B K and Cr
- C Cu and Zn
- D Cu and Hg



(a)

Which **reaction** is an example of **oxidation-reduction**?

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- D $\text{KCl} + \text{AgNO}_3 \rightarrow \text{AgCl} + \text{KNO}_3$

(b)