



Name _____ Class _____ Date _____

1

Given the reaction:



Which **half-reaction** correctly shows the **oxidation** that occurs?

- A $\text{Fe(s)} \rightarrow \text{Fe}^{2+}(\text{aq}) + 2\text{e}^-$
- B $\text{Fe(s)} + 2\text{e}^- \rightarrow \text{Fe}^{2+}(\text{aq})$
- C $\text{Cu}^{2+}(\text{aq}) \rightarrow \text{Cu(s)} + 2\text{e}^-$
- D $\text{Cu}^{2+}(\text{aq}) + 2\text{e}^- \rightarrow \text{Cu(s)}$

2

In which kind of reaction is **soap** one of the **products**?

- A oxidation
- B saponification
- C neutralization
- D fermentation



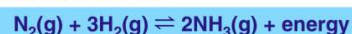
3

Which **metal** is produced by the **electrolytic reduction** of its fused salt?

A Fe

4

Given the reaction:



If the temperature is increased and the

5



PREVIEW

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7

- A energy, only
- B matter, only
- C both matter and energy
- D neither matter nor energy

- A saponification
- B esterification
- C polymerization
- D fermentation

9

Given the reaction:



Which substance in this process acts as the **oxidizing agent**?

- A Fe
- B Fe_2O_3
- C CO
- D CO_2

10

Which reaction has the **greatest increase** in **entropy**?

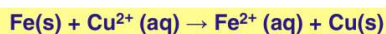
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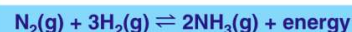
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