



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

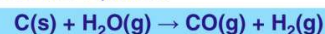
1

Which formula correctly represents the **product** of an **addition reaction** between ethene and chlorine?

- A  $\text{CH}_2\text{Cl}_2$
- B  $\text{CH}_3\text{Cl}$
- C  $\text{C}_2\text{H}_4\text{Cl}_2$
- D  $\text{C}_2\text{H}_3\text{Cl}$

2

Given the equation:

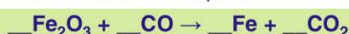


Which species undergoes **reduction**?

- A C(s)
- B H<sup>+</sup>
- C C<sup>2+</sup>
- D H<sub>2</sub>(g)

3

Given the unbalanced equation:



When the equation is correctly balanced

4

Given the reaction:



5



## PREVIEW

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7



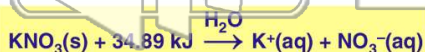
Which molecule is represented by X?

- A  $\text{C}_2\text{H}_4$
- B  $\text{C}_2\text{H}_6$
- C  $\text{C}_2\text{H}_8$
- D  $\text{C}_2\text{H}_8$

- A  $\text{H}_2\text{O(g)} \rightarrow \text{H}_2\text{O(l)}$
- B  $\text{C(s)} + \text{O}_2\text{(g)} \rightarrow \text{C}_2\text{O(g)}$
- C  $2\text{}^1_1\text{H} + 3\text{}^1_1\text{H} \rightarrow 4\text{}^2_2\text{He} + 1\text{}^1_0\text{n}$
- D  $^{235}_{92}\text{U} + 1\text{}^1_0\text{n} \rightarrow ^{142}_{56}\text{Ba} + ^{91}_{36}\text{Kr} + 3\text{}^1_0\text{n}$

9

Given the balanced equation:



Which statement best describes this process?

- A It is endothermic and entropy increases.
- B It is endothermic and entropy decreases.
- C It is exothermic and entropy increases.
- D It is exothermic and entropy decreases.

10

Given the reaction:



In this reaction, ammonia molecules ( $\text{NH}_3$ ) act as a **base** because they

- A accept hydrogen ions ( $\text{H}^+$ )
- B accept hydroxide ions ( $\text{OH}^-$ )
- C donate hydrogen ions ( $\text{H}^+$ )
- D donate hydroxide ions ( $\text{OH}^-$ )



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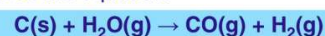
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2

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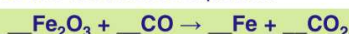


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- C C<sup>2+</sup>
- D H<sub>2</sub>(g)

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Given the unbalanced equation:



When the equation is correctly balanced

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- D  $\text{C}_2\text{H}_{10}$

10

Given the reaction:

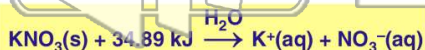


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