

## **Decomposition Reactions Quiz PDF**

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In the electrolysis of water, what gases are produced?
Oxygen and nitrogen
Hydrogen and oxygen
O Hydrogen and nitrogen
○ Carbon dioxide and oxygen
What are the characteristics of electrolytic decomposition reactions? (Select all that apply)
Require heat
☐ Involve electricity
☐ Produce gases
Occur in the presence of light
How does the presence of a catalyst affect the rate of a decomposition reaction?

Predict the products of the decomposition of potassium chlorate and explain the reaction process.



Which of the following are examples of decomposition reactions? (Select all that apply)
Decomposition of hydrogen peroxide
☐ CombustION of methane
☐ Electrolysis of water
Synthesis of ammonia
What factors can affect the rate of decomposition reactions? (Select all that apply)
☐ Temperature
☐ Pressure
Concentration of reactants
Presence of a catalyst
What is a decomposition reaction?
A reaction where two elements combine to form a compound.
A reaction where a compound breaks down into simpler substances.
A reaction where an element replaces another in a compound.
A reaction where two compounds exchange ions.
Discuss the role of decomposition reactions in the carbon cycle.

Explain the process of thermal decomposition and provide an example.



What are the environmental implications of decomposition reactions in waste management	nt?
Describe how electrolytic decomposition is used in industrial applications.	
Which of the following are products of the decomposition of ammonium dichromate? (Sel apply)	ect all that
☐ Chromium(III) oxide	
☐ Nitrogen gas	
Water	
☐ Ammonia	
Which reactions are considered photolytic decomposition? (Select all that apply)	
☐ Decomposition of silver bromide in sunlight	
☐ Electrolysis of sodium chloride	
☐ Decomposition of hydrogen peroxide	

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Decomposition of ozone by UV light
What type of energy is involved in thermal decomposition reactions?
<ul><li>Light</li><li>Heat</li><li>Electricity</li><li>Sound</li></ul>
Which of the following is not a type of decomposition reaction?
<ul><li>Thermal</li><li>Electrolytic</li><li>Photolytic</li><li>Catalytic</li></ul>
What is the product of the decomposition of calcium carbonate?
<ul> <li>Calcium and oxygen</li> <li>Calcium oxide and carbon dioxide</li> <li>Calcium chloride and water</li> <li>Calcium hydroxide and carbon monoxide</li> </ul>
Which of the following compounds can undergo thermal decomposition? (Select all that apply)
<ul><li>☐ Calcium carbonate</li><li>☐ Sodium chloride</li><li>☐ Potassium chlorate</li><li>☐ Ammonium nitrate</li></ul>
Which of the following reactions involves the use of electricity?
<ul> <li>Thermal decomposition</li> <li>Electrolytic decomposition</li> <li>Photolytic decomposition</li> <li>Catalytic decomposition</li> </ul>
Which of the following is an example of a photolytic decomposition reaction?
○ Electrolysis of water

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O Decomposition of calcium carbonate
O Decomposition of silver chloride in sunlight
O Decomposition of hydrogen peroxide
Which of the following is a general equation for a decomposition reaction?
$\bigcirc A + B \rightarrow AB$
$\bigcirc$ AB + C $\rightarrow$ AC + B
$\bigcirc AB \rightarrow A + B$

 $\bigcirc$  A + B  $\rightarrow$  C