

Name : ..... Date : .....

## Writing and Balancing Chemical Reactions

Predict the products along with the states and balance the following chemical reactions.

- a) A lead (II) nitrate solution is mixed with sodium iodide solution.
  
- b) Solid zinc sulfide reacts with oxygen in the air.
  
- c) Liquid butane is used as a fuel to ignite a lighter.
  
- d) Barium hydroxide solution is neutralized by adding hydrochloric acid.
  
- e) Copper metal is placed in a solution of silver nitrate.
  
- f) Sulfur burns in oxygen to make sulfur dioxide gas.
  
- g) A solution of aluminum sulfate is mixed with a solution of calcium hydroxide.
  
- h) Zinc metal is placed in sulfuric acid.
  
- i) Aluminum powder is placed in a container filled with chlorine gas.
  
- j) Sucrose ( $C_{12}H_{22}O_{11}$ ) undergoes cellular respiration.

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## Answers

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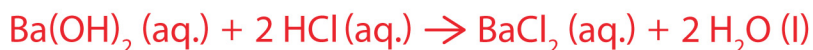
b) Solid zinc sulfide reacts with oxygen in the air.



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g) A solution of aluminum sulfate is mixed with a solution of calcium hydroxide.



h) Zinc metal is placed in sulfuric acid.



i) Aluminum powder is placed in a container filled with chlorine gas.



j) Sucrose ( $\text{C}_{12}\text{H}_{22}\text{O}_{11}$ ) undergoes cellular respiration.

