

Name : \_\_\_\_\_ Date : \_\_\_\_\_

## Complete Chemical Word Equations

Write and balance the complete chemical equation to describe the following chemical process.

- 1) When sugar ( $C_6H_{12}O_6$ ) is burnt in the presence of oxygen, the products are carbon dioxide and water vapor.
- 2) When solid lithium hydroxide is added to a sulfuric acid solution, lithium sulfate and water are formed.
- 3) Ammonia burns in the air to form nitrogen dioxide and water.
- 4) Carbon disulfide burns in the air to form carbon dioxide and sulfur dioxide.
- 5) Oxygen gas reacts with solid copper metal to form copper (II) oxide solid.
- 6) Hydrogen sulfide gas is bubbled through a sodium hydroxide solution to produce sodium sulfide solution and liquid water.
- 7) Solid iron (III) oxide and carbon monoxide gas produce solid iron and carbon dioxide gas.
- 8) Solid aluminum metal reacts with aqueous zinc chloride to produce solid zinc metal and aqueous aluminum chloride.

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### Answers

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- 6) Hydrogen sulfide gas is bubbled through a sodium hydroxide solution to produce sodium sulfide solution and liquid water.



- 7) Solid iron (III) oxide and carbon monoxide gas produce solid iron and carbon dioxide gas.



- 8) Solid aluminum metal reacts with aqueous zinc chloride to produce solid zinc metal and aqueous aluminum chloride.

