

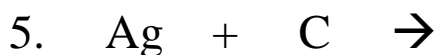
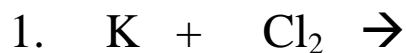
Name _____

Chemistry

Synthesis and Decomposition Reactions

Directions: Fill in the correct missing chemical formulas

Addition



Directions: Write and balance equations for the following synthesis reactions.

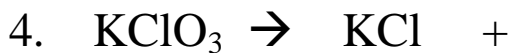
1. hydrogen and bromine react forming hydrogen bromide

2. fluorine and argon react forming argon trifluoride

3. sulfur and oxygen react forming sulfur dioxide

4. calcium and chlorine react forming calcium chloride

Decomposition



Directions: Write and balance equations for the following decomposition reactions

6. decomposition of liquid water into hydrogen and oxygen gases

7. decomposition of solid aluminum oxide into solid aluminum and oxygen gas

8. decomposition of aqueous sodium chloride into solid sodium and chlorine gas

9. decomposition of aqueous ammonia into hydrogen gas and nitrogen gas
