

Classifying Chemical Reactions

Directions: Match the types of chemical reactions in Column II with the description in Column I. Write the letter of the correct reaction in the blank at the left.

Column I

- _____ 1. A precipitate, water, or a gas forms when two ionic compounds in solution are combined.
- _____ 2. Two or more substances combine to form another substance.
- _____ 3. One element replaces another in a compound.
- _____ 4. One substance breaks down into two or more substances.

Column II

- a. synthesis reaction
- b. decomposition reaction
- c. single-replacement
- d. double-replacement

Directions: Classify each reaction as synthesis, decomposition, single replacement, or double replacement.

