

## TYPES OF CHEMICAL REACTIONS

### Section A: Fill in the Blanks

Fill in the blanks below using words/phrases from the word bank below. Words may be used **once, more than once** or **not at all**.

| WORD BANK           |                     |
|---------------------|---------------------|
| SINGLE DISPLACEMENT | FIVE                |
| DECOMPOSITION       | DOUBLE DISPLACEMENT |
| COMBINATION         | ONE                 |
| TWO                 | THREE               |

- There are \_\_\_\_\_ major types of chemical reactions.
- A synthesis or \_\_\_\_\_ reaction occurs when two or more substances combine to form ONE substance.  
e.g.  $A + B \rightarrow AB$
- A \_\_\_\_\_ reaction occurs when a single substance breaks down into TWO or more substances.  
e.g.  $AB \rightarrow A + B$
- A \_\_\_\_\_ or single replacement reaction occurs when ONE element replaces another element in a compound.  
e.g.  $A + BC \rightarrow AC + B$
- A \_\_\_\_\_ or double replacement reaction occurs when the positive ions in two compounds replace each other.  
e.g.  $AB + CD \rightarrow CB + AD$

## Section B: Identifying Combination and Decomposition Reactions

Balance the equations below. Indicate whether the reaction is a **COMBINATION** or **DECOMPOSITION** reaction by writing in the appropriate word under type of chemical reaction.

Examples are provided below:



Type of Chemical Reaction: **Combination**



Type of Chemical Reaction: **Decomposition**

### EQUATION

### TYPE OF REACTION



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



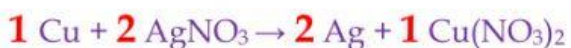
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\_\_\_\_\_

### Section C: Identifying Single and Double Displacement Reactions

Balance the equations below. Indicate the type of displacement reaction by writing SINGLE or DOUBLE in the space provided. Examples are provided below.



Reaction: **Single Displacement**



Reaction: **Double Displacement**

#### EQUATION

#### TYPE OF REACTION

