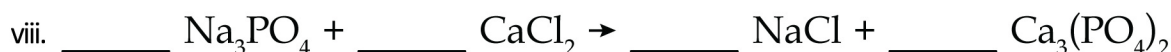
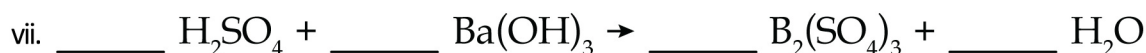
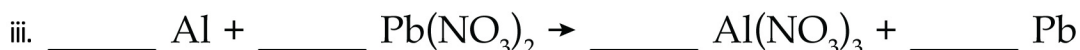
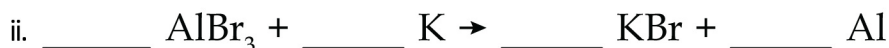
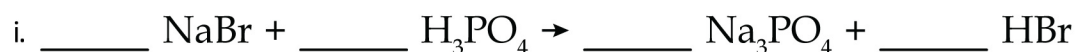


## Balancing Equations

Part 1. Fill in the blanks with the most appropriate terms.

1) A balanced \_\_\_\_\_ tells the story of a chemical reaction. \_\_\_\_\_ are starting substances in the reaction, while \_\_\_\_\_ are new substances that form. The numbers in front of some of the formulas are called \_\_\_\_\_. These numbers are used to \_\_\_\_\_ the equation because chemical reactions must obey the law of \_\_\_\_\_ of matter. The number of atoms of each element on both sides of the equation must be equal because matter cannot be \_\_\_\_\_ nor \_\_\_\_\_. When balancing equations, the only numbers that can be changed are the \_\_\_\_\_. Remember that \_\_\_\_\_ must never be changed in order to balance an equation.

Part B. Balance the following chemical equations.



## Balancing Equations

### Answers

1) A balanced equation tells the story of a chemical reaction. Reactants are starting substances in the reaction, while products are new substances that form. The numbers in front of some of the formulas are called coefficients. These numbers are used to balance the equation because chemical reactions must obey the law of conservation of matter. The number of atoms of each element on both sides of the equation must be equal because matter cannot be created nor destroyed. When balancing equations, the only numbers that can be changed are the coefficients. Remember that formulas must never be changed in order to balance an equation.

