

Gizmos: Types of Reactions

Activity B: Classifying reactions

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Introduction: Chemical equations show how **compounds** and **elements** react with one another. An element is a substance consisting of one kind of atom, such as aluminum (Al) or oxygen gas (O₂). A compound is a substance made of more than one kind of atom, such as water (H₂O) or table salt (NaCl).

Question: How are chemical reactions classified?

1. **Match:** Most chemical reactions can be classified as one of four types. Using the chemical equations in the Gizmo as a guide, match the following definitions to the type of reaction.

____ One reactant is broken down into two or more products.

A. **Addition**

____ Two or more reactants combine to form one product.

B. **Decomposition**

____ Two compounds react to form two different compounds.

C. **Single replacement**

____ A compound reacts with an element to form a new compound and a different element.

D. **Double replacement**

2. **Practice:** Balance each of the chemical equations below. (Some equations may already be in balance.) In the space to the right, classify the reaction as an *addition*, *decomposition*, *single replacement*, or *double replacement* reaction.



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