

2. REACTION TYPES

UNIT 2 CHEMICAL REACTIONS

CH30S

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1

REACTION TYPES

A **synthesis** (or combination) reaction involves two or more simple substances (elements or compounds) combining to form one more complex substance.



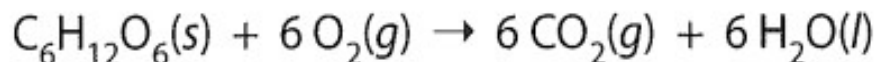
A **decomposition** reaction involves a complex compound being broken down or decomposed into two or more simpler substances (elements or compounds).



2

REACTION TYPES

A **combustion** reaction involves the reaction of a hydrocarbon (a compound made up of hydrogen and carbon) or a carbohydrate (a compound made up of hydrogen, carbon and oxygen) with oxygen gas to produce carbon dioxide gas and water.



3

REACTION TYPES

A **single replacement** reaction (also called single displacement) involves a reaction between a compound and an element so that the element replaces an element of the same type in the compound. The result is a new compound and a new element.




A **double replacement** reaction is a chemical reaction between two compounds that trade cations (or anions) with one another.



4

EXAMPLE

A solution of magnesium chloride reacts with a solution of silver nitrate and a reaction occurs.

Words			
Formulas			
Pictures 			
Balanced Equation			