

Chemical Reactions

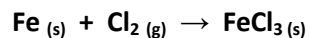
Writing Chemical Equations

Chemical reactions are represented by writing chemical equations. These equations contain the chemical names or formulas and other important symbols. Complete the table below by identifying the components or symbols that are a part of every chemical equation.

Rxn Component	Definition
reactants	
products	
+	
→	
(s)	
(l)	
(g)	

The following equations are written out with complete chemical names. Rewrite the equations using the appropriate chemical formulas. Remember to account for diatomic elements!

Example: Iron metal and chlorine gas react to produce iron (III) chloride solid.



- Hydrogen gas and bromine gas react to produce hydrogen bromide.
- Potassium chlorate (s) decomposes to form potassium chloride (s) and oxygen.

Classifying Reactions

Complete the following information for each of the five different reaction types. This should help you to identify reactions.

Synthesis Reaction

General Rxn:

Example Rxn:

Description:

Combustion Reaction

General Rxn:

Example Rxn:

Description:

Decomposition Reaction

General Rxn:

Example Rxn:

Description:

Single-Replacement Reaction

General Rxn:

Example Rxn:

Description:

Activity Series:

Double-Replacement Reaction

General Rxn:

Example Rxn:

Description: