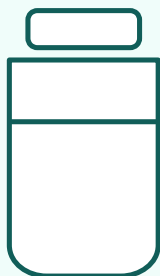


Chemical Reactions

7th Grade

The signs a reaction happened, and the law that governs all of them.



In a chemical reaction, atoms are rearranged into new substances. No atoms are created or destroyed.

- Signs: colour change, gas produced, temperature change, precipitate, light.
- Reactants are on the left of the arrow; products on the right.
- Mass is conserved — the same atoms appear on both sides.
- That is why equations must be balanced.
- Exothermic reactions release heat; endothermic ones absorb it.

LOOK FOR IT

Iron + oxygen → rust. The iron has not vanished; it has become something else.

Balancing means changing the big numbers in front, never the small ones inside a formula.