

6.5 Balancing eqn #2 solution.notebook

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How to balance a chemical equation: (4 step process)

Step 1: Write the skeleton equation
 word eqn. (Methane + Oxygen \rightarrow Water + Carbon dioxide)
 $\text{CH}_4 + 2\text{O}_2 \rightarrow \text{H}_2\text{O} + \text{CO}_2$

Step 2: Count the # of atoms of each type on each side of the reaction.

Atoms	Reactants	Products
C	1	1
H	4	2
O	2	4

Step 3: Multiply each of the chemical formulas by the appropriate COEFFICIENTS to balance the eqn. (start with the largest imbalance)

$\text{CH}_4 + 2\text{O}_2 \rightarrow 2\text{H}_2\text{O} + \text{CO}_2$

Step 4: Count atoms again to make sure the eqn is balanced.

Ex 2: Magnesium + Nitric acid \rightarrow Hydrogen + Nitrogen + Magnesium nitrate

Atoms	Reactants	Products
Mg	1	1
H	1	2
N	1	1
O	3	6

Apr 8-3:04 PM