

WORD EQUATION TO SYMBOL EQUATION MAT

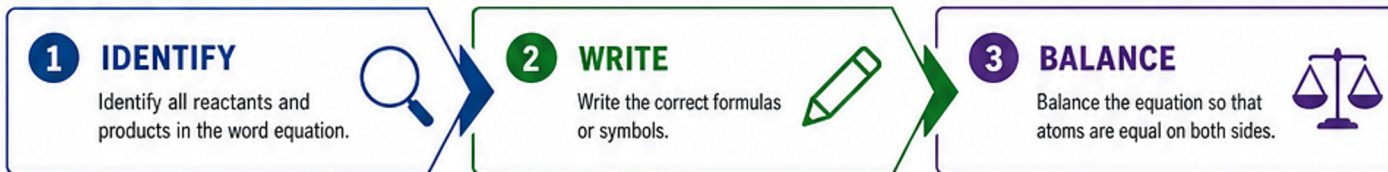
NAME: _____

DATE: _____



PURPOSE: Convert a word equation into a balanced symbol equation.

THE PROCESS



WORD EQUATION (Reactants → Products)	SYMBOL EQUATION (Balanced)
1	
2	
3	
4	
5	

COMMON SYMBOLS AND FORMULAS

ELEMENTS (examples)

H Hydrogen
O Oxygen
N Nitrogen
C Carbon
S Sulfur
Na Sodium
Cl Chlorine
Fe Iron
Cu Copper
Zn Zinc

DIATOMIC ELEMENTS

H₂ Hydrogen
N₂ Nitrogen
O₂ Oxygen
F₂ Fluorine
Cl₂ Chlorine
Br₂ Bromine
I₂ Iodine

COMMON POLYATOMIC IONS

NO₃⁻ Nitrate SO₄²⁻ Sulfate CO₃²⁻ Carbonate
OH⁻ Hydroxide NH₄⁺ Ammonium PO₄³⁻ Phosphate

BALANCING CHECKLIST

- All species have correct formulas.
 - No subscripts have been changed.
 - Only coefficients have been used to balance.
 - The number of each type of atom is the same on both sides.
 - Charges are balanced (if applicable).
 - State symbols are included (s, l, g, aq) if required.
- (s) solid (l) liquid
(g) gas (aq) aqueous

NOTES / EXAMPLES

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TIP: Check your answer by counting atoms on each side. If they match, your equation is balanced.