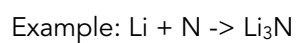
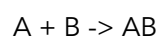


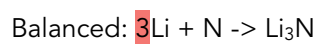
Classifying Reactions Comic

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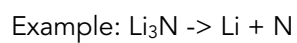
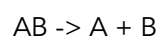
Combination/Synthesis Reactions



Element	Before	After	Element	Before	After
Li	1	3	Li	3	3
N	1	1	N	1	1



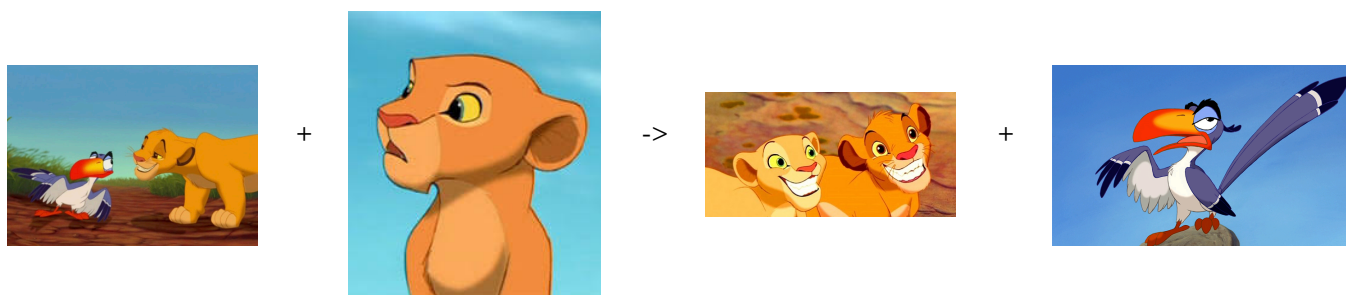
Decomposition Reactions



Element	Before	After	Element	Before	After
Li	3	1	Li	3	3
N	1	1	N	1	1

Balanced: $\text{Li}_3\text{N} \rightarrow 3\text{Li} + \text{N}$

Single Displacement/Replacement Reactions



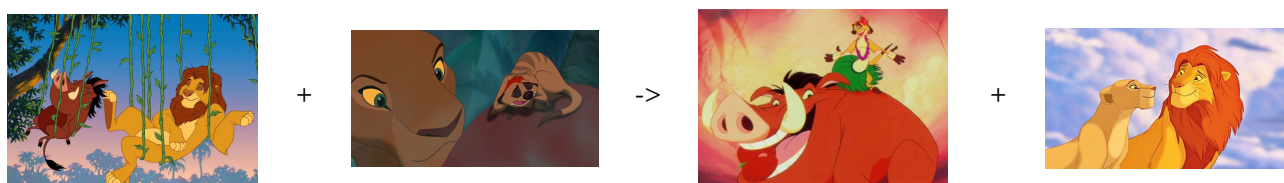
$\text{AB} + \text{C} \rightarrow \text{CB} + \text{A}$

Example: $\text{Li}_3\text{N} + \text{Be} \rightarrow \text{Be}_3\text{N}_2 + \text{Li}$

Element	Before	After	Element	Before	After
Li	3	1	Li	6	6
N	1	2	N	2	2
Be	1	3	Be	3	3

Balanced: $2\text{Li}_3\text{N} + 3\text{Be} \rightarrow \text{Be}_3\text{N}_2 + 6\text{Li}$

Double Displacement/Replacement Reactions



$\text{AB} + \text{CD} \rightarrow \text{AD} + \text{CB}$

Example: $\text{Li}_3\text{N} + \text{BeO} \rightarrow \text{Li}_2\text{O} + \text{Be}_3\text{N}_2$

Element	Before	After	Element	Before	After
Li	3	2	Li	6	6
N	1	2	N	2	2
Be	1	3	Be	3	3
O	1	1	O	3	3

Balanced: $2\text{Li}_3\text{N} + 3\text{BeO} \rightarrow 3\text{Li}_2\text{O} + \text{Be}_3\text{N}_2$