

















# Types of Chemical Reactions

Do atoms rearrange in predictable patterns during chemical reactions?

### Why?

Recognizing patterns allows us to predict future behavior. Weather experts use patterns to predict dangerous storms so people can get their families to safety. Political analysts use patterns to predict election outcomes. Similarly, chemists classify chemical equations according to their patterns to help predict products of unknown but similar chemical reactions.

# Model 1 - Types of Reactions

$$N_{y}(g) + 3H_{y}(g) \rightarrow 2NH_{y}(g)$$

$$2SO_j(g) + O_j(g) \rightarrow 2SO_j(g)$$

$$MgO(s) + H_2O(l) \rightarrow Mg(OH)_2(aq)$$

$$\mathrm{P_{2}O_{3}(g)} + 3\mathrm{H_{2}O(l)} \rightarrow 2\mathrm{H_{2}PO_{4}(aq)}$$

$$SO_{*}(g) + H_{*}O(l) \rightarrow H_{*}SO_{*}(aq)$$

# serc single replacement reaction

$$2Al(NO_s)_s(aq) + 3Ca(s) \rightarrow 3Ca(NO_s)_s(aq) + 2Al(s)$$

$$2Al(s) + 6HCl(aq) \rightarrow 2AlCl_s(aq) + 3H_s(g)$$

$$Cl_j(g) + 2NaBr(aq) \rightarrow 2NaCl(aq) + Br_j(l)$$

$$ZnBr_{r}(xq) + F_{r}(g) \rightarrow ZnF_{r}(xq) + Br_{r}(l)$$

# Son B Decomposition Reaction

$$MgCO_{\epsilon}(s) \rightarrow MgO(s) + CO_{\epsilon}(g)$$

$$8Li_*S(s) \rightarrow 16Li(s) + S_*(s)$$

$$2H_1O(1) \rightarrow 2H_1(g) + O_1(g)$$

$$2KClO_{s}(s) \rightarrow 2KCl(s) + 5O_{s}(g)$$

$$2Na_sO_s(s) \rightarrow 2Na_sO(s) + O_s(g)$$

$$(NH_s)_sCO_s(s) \rightarrow 2NH_s(g) + H_sO(0 + CO_s(g))$$

# Ser D Double Replacement Reaction

$$AgNO_s(aq) + NaO((aq) \rightarrow AgO(s) + NaNO_s(aq)$$

$$2HNO_{s}(sq) + Mg(OH)_{s}(sq) \rightarrow Mg(NO_{s})_{s}(sq) + 2H_{s}O(l)$$

$$Na_sCO_s(aq) + CaCL_s(aq) \rightarrow CaCO_s(s) + 2NaCl_s(aq)$$

$$FeS(s) = 2HCl(aq) \rightarrow H_sS(g) + FeCl_s(aq)$$

$$HCl(aq) + NsOH(aq) \rightarrow H_1O(l) + NsCl(aq)$$

The chemical equations in Model 1 contain the phase notations (s), (f), (g), and (aq). Match
each numbel with its meaning.

dissolved in water







- Based on the examples provided, which set(s) of reactions in Model 1 typically involve ions in solution (A, B, C or D)?

  Set

  D
- Based on the examples provided, which set(s) of reactions in Model 1 typically involve gases and/or solids?
   Set. B





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F. W. Aston

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