Types of Chemical Reactions POGIL

Do atoms rearrange in predictable patters 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

Set A
$4\text{Fe}(s) + 3O_y(g) \rightarrow 2\text{Fe}_yO_y(s)$
$N_y(g) + 3H_y(g) \rightarrow 2NH_y(g)$
$2SO_{s}(g) + O_{s}(g) \rightarrow 2SO_{s}(g)$
$MgO(s)+H_sO(l) \rightarrow Mg(OH)_s(aq)$
$P_2O_n(g) + 3H_2O(l) \rightarrow 2H_pPO_n(aq)$
$SO_3(g) + H_2O(l) \rightarrow H_2SO_4(aq)$
Set C
$2\text{FeCl}_{s}(aq) + 3\text{Zn}(s) \rightarrow 2\text{Fe}(s) + 3\text{ZnCl}_{s}(aq)$
$2AI(NO_s)_s(aq) + 3Ca(s) \rightarrow 3Ca(NO_s)_s(aq) + 2AI(s)$
$Mg(s) + CuSO_s(aq) \rightarrow MgSO_s(aq) + Cu(s)$
$2Al(s) + 6HCl(aq) \rightarrow 2AlCl_{3}(aq) + 3H_{2}(g)$
$Cl_2(g) + 2NaBr(aq) \rightarrow 2NaCl(aq) + Br_2(l)$
$ZnBr_{s}(aq) + F_{s}(g) \rightarrow ZnF_{s}(aq) + Br_{s}(l)$

Set B
$MgCO_{j}(s) \rightarrow MgO(s) + CO_{j}(g)$
$8\text{Li}_2S(s) \rightarrow 16\text{Li}(s) + S_g(s)$
$2H_1O(1) \rightarrow 2H_2(g) + O_2(g)$
$2KClO_s(s) \rightarrow 2KCl(s) + 3O_s(g)$
$2Na_2O_2(s) \rightarrow 2Na_2O(s) + O_2(g)$
$(\mathrm{NH}_y)_2\mathrm{CO}_y(s) \to 2\mathrm{NH}_y(g) + \mathrm{H}_2\mathrm{O}(l) + \mathrm{CO}_2(g)$

Set D
$AgNO_s(aq) + NaCl(aq) \rightarrow AgCl(s) + NaNO_s(aq)$
$2HNO_{j}(aq) + Mg(OH)_{j}(aq) \rightarrow Mg(NO_{j})_{j}(aq) + 2H_{j}O(l)$
$Na_sCO_s(ag) + CarCl_s(ag) \rightarrow CarCO_s(s) + 2NaCl(ag)$
$FeS(s) + 2HCl(aq) \rightarrow H_sS(g) + FeCl_s(aq)$
$HCl(aq) + NaOH(aq) \rightarrow H_2O(l) + NaCl(aq)$
$FeBr_s(aq) + K_sPO_s(aq) \rightarrow FePO_s(s) + 3KBr(aq)$

1. Match each description below to one of the reactions sets (A, B, C, or D) from Model 1.

______ Ionic compounds dissolved in water switch partners.
One compound breaks into elements or smaller compounds
Two or more elements or compounds combine to form one product.
Part of an ionic compound is removed and replaced by a new element.

- 2. Define the following terms as they are commonly used in the English language:
 - a. Synthesis:
 - b. Decomposition:
 - c. Replacement:



Chemical Reactions Answer Key

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