Types of Chemical Reactions POGIL

Do atoms rearrange in predictable patters during chemical reactions?

107 - TON

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	
$4Fe(s) + 3O_3(g) \rightarrow 2Fe_3O_3(s)$	
$N_{s}(g) + 3H_{s}(g) \rightarrow 2NH_{s}(g)$	
$2SO_{s}(g) + O_{s}(g) \rightarrow 2SO_{s}(g)$	
$MgO(s)+H_sO(l) \rightarrow Mg(OH)_s(aq)$	
$P_*O_*(g) + 3H_*O(l) \rightarrow 2H_*PO_*(aq)$	
$SO_3(g) + H_2O(l) \rightarrow H_2SO_4(aq)$	
Set C	
$2FeCl_s(aq) + 3Zn(s) \rightarrow 2Fe(s) + 3ZnCl_s(aq)$	
$2Al(NO_s)_s(aq) + 3Ca(s) \rightarrow 3Ca(NO_s)_s(aq) + 2Al(s)$	s)
$Mg(s) + CuSO_s(aq) \rightarrow MgSO_s(aq) + Cu(s)$	
$2Al(s) + 6HCl(aq) \rightarrow 2AlCl_1(aq) + 3H_2(g)$	
$Cl_{r}(g) + 2NaBr(aq) \rightarrow 2NaCl(aq) + Br_{r}(l)$	
$ZnBr_2(aq) + F_2(g) \rightarrow ZnF_2(aq) + Br_2(l)$	

Set B
$MgCO_3(s) \rightarrow MgO(s) + CO_3(g)$
$8\text{Li}_2S(s) \rightarrow 16\text{Li}(s) + S_1(s)$
$2H_1O(1) \rightarrow 2H_2(g) + O_2(g)$
$2KClO_{s}(s) \rightarrow 2KCl(s) + 3O_{s}(g)$
$2Na_sO_s(s) \rightarrow 2Na_sO(s) + O_s(g)$
$(\mathrm{NH}_y)_z\mathrm{CO}_y(s) \to 2\mathrm{NH}_y(g) + \mathrm{H}_z\mathrm{O}(l) + \mathrm{CO}_z(g)$
Set D
$AgNO_s(aq) + NaCl(aq) \rightarrow AgCl(s) + NaNO_s(aq)$
$2HNO_{s}(aq) + Mg(OH)_{s}(aq) \rightarrow Mg(NO_{s})_{s}(aq) + 2H_{s}O(l)$
$Na_sCO_s(aq) + CaCI_s(aq) \rightarrow CaCO_s(s) + 2NaCI(aq)$
$FeS(s) + 2HCl(aq) \rightarrow H_sS(g) + FeCl_s(aq)$

 $HCl(aq) + NaOH(aq) \rightarrow H_{\gamma}O(l) + NaCl(aq)$ $FeBr_{\gamma}(aq) + K_{\gamma}PO_{\gamma}(aq) \rightarrow FePO_{\gamma}(s) + 3KBr(aq)$

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:
 - 3.The four sets of chemical reactions shown in Model 1 have the following general names. Discuss within your group which name belongs to which set of chemical reactions. Write the name in the appropriate place in Model 1.

Pogil Types Of Chemical Reactions Answers

BM King

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Structure and Change Alan C. Blizzard, Richardson, R. A. (Robert A.), Humphreys, D. A. (David A.), 1981 *Exploring Chemical Reactions* Nigel Saunders, 2007 Describes different types of reactions including acid base reactions and oxidation presents potential uses for chemical reactions and gives an overview of the building blocks of elements and compounds

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