KEY

6 Types of Reactions - Review

1.) Express what type of reaction each of the following are.

a.) Neutralization

b.) Synthesis

c.) Synthesis

d.) Decomposition

e.) Neutralization

f.) Double Replacement

g.) Single Replacement

h.) Single Replacement

i.) Double Replacement

j.) Combustion

2.) Predict the products formed from each reaction.

a.) Synthesis = AlF_3

b.) Synthesis = K_2O

c.) Combustion = CO_2 + H_2O

d.) Combustion = CO_2 + H_2O

e.) Decomposition = Rb + O_2

f.) Decomposition = Sr + F_2

g.) Double Replacement = $Ba(NO_3)_2$ + $PbCl_2$

h.) Double Replacment = $Ag_2Cr_2O_7$ + KNO_3

i.) Single Replacement = $NiBr_3$ + I_2

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j.) Single Replacement = $MgCl_2$ + N_2

k.) Neutralization = $MoCl_4$ + H_2O

l.) Neutralization = $Sn(ClO_3)_4$ + H_2O

m.) Single Replacement = AlI_3 + Cu

n.) Single Replacement = MgF_2 + Fe

3.) Which type of reaction matches the description?

a.) Decomposition.

b.) Synthesis.

c.) Neutralization.

d.) Single Replacement.

e.) Combustion.

f.) Double Replacement.

g.) Single Replacement.

4.) Name the most important reaction rate modifier for each scenario.

a.) Surface area.

b.) Surface area.

c.) Temperature.

d.) Concentration.

e.) Concentration.

f.) Catalyst.

g.) Surface area.

h.) Concentration.

5a.) Synthesis = __4__ Li + _____ O_2 → __2__Li_2O

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b.) Single Replacement = __3__ Mg + __2__$AlCl_3$ → __3__ $MgCl_2$ + __2__ Al

c.) Combustion = __2__ C_4H_{10} + __13__ O_2 → __8__ CO_2 + __10__ H_2O

d.) Neutralization = _____ HCl + _____ LiOH → _____ LiCl + _____H_2O

e.) Decomposition = __2__ Al_2O_3 → __4__ Al + __3__ O_2

f.) Single Replacement = __3__ Sn + __4__ $Au(NO_3)_3$ → __3__$Sn(NO_3)_4$ + __4__Au

g.) Double Replacement = __2__ $Ba(OH)_2$ + _____ $PbBr_4$ → _____ $Pb(OH)_4$ + __2__ $BaBr_2$

h.) Combustion = __2__ $C_3H_8O_3$ + __7__ O_2 → __6__ CO_2 + __8__H_2O

i.) Synthesis = __2__ N_2 + _____ O_2 → __2__ N_2O