

Reactions Mix 1  
Class Practice for Proficiency

Objective: Can I pick out which type of reaction is being utilized and properly predict the products

This box below represents the minimum that would be expected on a student notecard

Single Replacement -- $A + BC \rightarrow AC + B$
Double Replacement -- $AB + CD \rightarrow AD + CB$
Composition -- $A + B \rightarrow AB$
Decomposition -- $AB \rightarrow A + B$
Combustion -- $C_xH_y + O_2 \rightarrow H_2O + CO_2$

Complete and balance	Reaction Type
1. $2 H_2 + 1 O_2 \rightarrow 2 H_2O$	Syn
2. $\_\_\_ HCl + \_\_\_ Pb(NO_3)_2 \rightarrow HNO_3 + PbCl_2$ <span style="margin-left: 100px;"><small>(aq)</small></span> <span style="margin-left: 100px;"><small>(s)</small></span>	DD
3. $\_\_\_ AgNO_3 + \_\_\_ K_2CO_3 \rightarrow Ag_2CO_3 + KNO_3$ <span style="margin-left: 100px;"><small>(aq)</small></span> <span style="margin-left: 100px;"><small>(s)</small></span> <span style="margin-left: 100px;"><small>(aq)</small></span>	dd
4. $\_\_\_ Zn + \_\_\_ S \rightarrow$ $Zn + S \rightarrow ZnS$	Syn.
5. $\_\_\_ Al + \_\_\_ AgNO_3 \rightarrow Ag + Al(NO_3)_3$ <span style="margin-left: 150px;">☺</span>	Single
6. $2 NH_3 \rightarrow N_2 + 3 H_2$	