

8.3 Classifying Reactions

3 driving forces

Formation of a
Solid

Formation
of water

Transfer of
electrons

① Precipitation

② Acid/Base

Red Ox

③ Synthesis

④ Decomposition

look at reactants
to classify

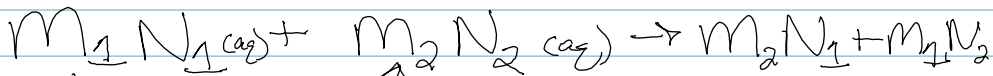
⑤ Single Replacement

⑥ Combustion

Reactants → Predict Products

① Precipitation and ② Acid Base

Ionic Compd (aq) + Ionic Compd (aq)

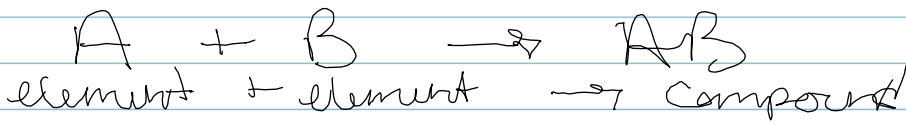


trade precipitation Form a solid
acid base = Form water

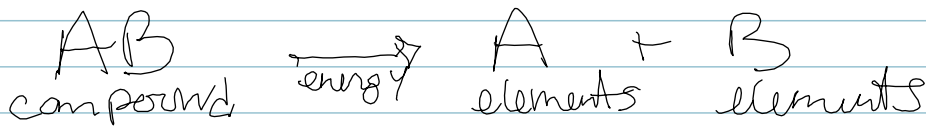
Also known as Double Displacement

Red Ox

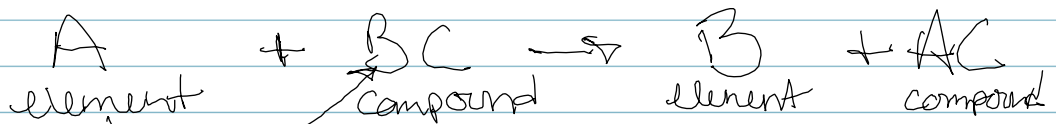
③ Synthesis



④ Decomposition



⑤ Single Replacement



metal A will replace metal B only
if it is "more active"

Check activity series to determine
if the metal will replace



non metal A must be more
active than nonmetal B

Check the periodic table for activity

most reactive
least reactive

