Question #51738, Chemistry, Physical Chemistry

Give a brief discussion about all type of reactions with examples.

Answer:

By the number of	Oxidation state	
substances and substances formed	Without a change in the oxidation state	With the change in oxidation state
reaction of the compound A + B = AB	$CaO+H_2O=Ca(OH)_2$ PbO+SiO ₂ =PbSiO ₃	$H_2+CI_2=2HCI$ 4Fe(OH) ₂ +2H ₂ O+O ₂ =4Fe(OH) ₃
decomposition reaction AB = A + B	$Cu(OH)_2=CuO+H_2O$ $CaCO_3=CaO+CO_2$ $NH_4Cl=NH_3+HCl$	4HNO ₃ =2H ₂ O+4NO ₂ +O ₂ 4KClO ₃ =3KClO ₄ +KCl
replacement reaction A + BC =AC + B		CuSO ₄ +Fe=FeSO ₄ +Cu 2KBr+Cl ₂ =2KCl+Br ₂
exchange reaction AB + CD = AD + CB	AgNO3+KBr=AgBr↓ NaOH+HCl=NaCl+H₂O	