Worksheet 5 – Hydrolysis

Classify each formula as an acid anhydride, basic anhydride, strong acid, weak acid, strong, or weak base. For each formula write an equation to show how it reacts with water. For anhydrides write two equations.

Formula	Classification	Reaction
Na_2O	_____	
CaO	_____	
SO_3	_____	
CO_2	_____	
HCl	_____	
NH_3	_____	
NaOH	_____	
HF	_____	
H_3PO_4	_____	
KCl	_____	
HNO_3	_____	
$NaHCO_3$	_____	

$AlCl_3$ _____

$LiHCO_3$ _____

Na_2CO_3 _____

Na_2HPO_4 _____

$NaHSO_3$ _____

$NaNO_3$ _____

NaCN _____

$Fe(NO_3)_3$ _____